

GenCore version 5.1.6  
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1 protein - protein search, using sw model

on on: December 3, 2003, 07:21:37 ; Search time 29.3726 Seconds  
(without alignments)  
1078.927 Million cell updates/sec

itle: US-09-913-955A-1

arfact score: 3958

equences: 1 MEATGSSVETGKXNRGTR.....AFNCPNNTVMRGNDSCRLW 749

oring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

sarched: 328717 seqs, 42310858 residues

otal number of hits satisfying chosen parameters: 328717

inimum DB seq length: 0

aximum DB seq length: 2000000000

ost-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

atabase :

Issued Patents: AA.\*

1: /cgn2\_6/ptodata/1/iaa/5A\_COMB.pdp.\*

2: /cgn2\_6/ptodata/1/iaa/5B\_COMB.pdp.\*

3: /cgn2\_6/ptodata/1/iaa/6A\_COMB.pdp.\*

4: /cgn2\_6/ptodata/1/iaa/6B\_COMB.pdp.\*

5: /cgn2\_6/ptodata/1/iaa/PCTUS\_COMB.pdp.\*

6: /cgn2\_6/ptodata/1/iaa/backfiles.pdp.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

# SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	1373	34.7	742	4	US-09-704-611-2
2	1368.5	34.6	765	4	US-09-704-611-1
3	1257	31.8	703	3	US-08-646-273-25
4	1257	31.8	753	3	US-08-646-273-36
5	1248.5	31.5	758	1	US-08-289-112-2
6	1241.5	31.4	708	3	US-08-646-273-23
7	1241.5	31.4	754	3	US-08-646-273-30
8	1222.5	30.9	765	4	US-09-819-989-4
9	1221	30.8	811	4	US-09-819-989-2
10	1221	30.8	883	4	US-09-667-373-4
11	1184	29.9	787	1	US-08-574-763-2
12	983.5	24.8	775	3	US-09-305-640-2
13	983.5	24.3	690	4	US-08-646-273-19
14	790	20.0	690	4	US-09-328-352-5182
15	527.5	13.3	189	3	US-08-646-273-14
16	501	12.7	590	4	US-09-107-532A-4682
17	470.5	11.9	632	4	US-09-634-238-249
18	246	6.2	181	3	US-09-305-640-4
19	119	3.0	1016	4	US-09-635-972-24
20	116	2.9	725	2	US-08-813-940-25
21	114.5	2.9	990	2	US-08-392-625-20
22	114.5	2.9	990	2	US-08-466-961A-20
23	114.5	2.9	990	2	US-08-645-193B-15
24	112	2.8	722	4	US-09-252-991A-17407
25	111.5	2.8	1056	4	US-09-394-272-1
26	108	2.7	681	2	US-08-655-345-4
27	108	2.7	681	3	US-08-183-275-4

## ALIGNMENTS

### RESULT 1

US-09-704-611-2

; Sequence 2, Application US/09704611

; Patent No. 6548284

; GENERAL INFORMATION:

; APPLICANT: JCR Pharmaceuticals Co., Ltd.

; TITLE OF INVENTION: Membrane-bound Metalloprotease and Soluble Secreted Form Thereof

; FILE REFERENCE: GP30

; CURRENT APPLICATION NUMBER: US/09/704,611

; CURRENT FILING DATE: 2000-11-03

; NUMBER OF SEQ ID NOS: 9

; SEQ ID NO 2

; LENGTH: 742

; TYPE: PRT

; ORGANISM: Mus musculus

US-09-704-611-2

Query Match 34.7%; Score 1373; DB 4; Length 742;

Best Local Similarity 38.7%; Pred. No. 2.8e-126;

Matches 290; Conservative 149; Mismatches 267; Indels 44; Gaps 17;

Qy	18	GTRIALVVFVGGTILVLGTLFLVSGQLLSIQAKQEQECLKPECIEAAIAILSKVNLVDPC	77
Db	19	GLMVLILLGAVITLGV---FYSIALRDSLSKSDICTTSCVIAAAILENMDQSRNPC	75
Qy	78	DNFRFACDGNWNNIPEDMPSGYVFWLHNVDLKLELKSISRDRDTAIQAKI	137
Db	76	ENFYQACGGWLRHHVVPETNSKYSVFDILRDEVLKGVLEDS--SQHR--PAVEKAKT	133
Qy	138	LYSSCMNERAKAEKADAKPLLIHLRHSFPFWPVLSESNIGPEGVMSR---KFSLLQTLATF	194
Db	134	LYRSCMNQSVIERDESEPLSLVLK-WVGWPVALDK-----WNETMGLKWELEQLAVL	186
Qy	195	RGQYSNVFIRLVSPDDKASNEHLKLDQATLUSLAVREDYLDNSTEAKSYRDALYKFMV	254
Db	187	NSQFNRRVLIDFLIMDNDQNSRRHVIYDQPTLGMPRSREYVFOEDNNHK-VRKAYPEFMT	245
Qy	255	DTAVL-----LCANSSRAEHDMSVLRLEIKTAETIMIPHENKTS-EAMYNKNVISELSA	307
Db	246	SVATMLRKQNLKSKESAMVREEMAEVLETHLANATVQEKRHVDVTLHRLMDLMELQEQ	305
Qy	308	M--IPOFDMWLGYYKKV---IDRLYPLHKDISPENVVVRVPOYFKDLFRILGSRKKT	362
Db	306	RFLGKGFNTLFTQNVLSSVEVELF-----PDEEVVYVGIPIYLENLEIDISYSART	358
Qy	363	ANYLVVRMYSRIPNLSSRRFOYRWLEFSVIOGTTLLPQWDKCNVFIISALPYVYVKGKF	422
Db	359	QNVLVRLVLDRLGSLQSRFKARVDIRKALYGTIVVEVRWRECVSYVNSNMESAVGSY	418
Qy	423	VDYVFOEDKEMMEELVEGVVRWAFIDMLEKENWMDAGTKRKAKAKARAVLAKVGYPEFI	482

b 419 IKRAFSKSKSSTVRELIEKIRSVFVDNLDLNL-WMDESKKAAQKANNIREQIQPYDI 477  
 y 483 M--NTHVNEDLKAIFSEADYFGNVLQTRKYLAQSDFFWLKAVPKTETWFTNPTTVNAF 540  
 b 478 LEDNNKHLDEEYSSLTFFEDLYFENGLOLKNNAQKSLKLRKVDQNLWIIAAVNAF 537  
 y 541 YSASTNOIRFPAGELQKPEFFWGTETPRSLSYGAIGVIVGHEBTHGFDNNGKRYDGNL 600  
 b 538 YSPNRNQIVFPAGILQPPFF-SKDQPSLNFQIGMWIGHEITHGFDNNGKRYDGNL 596  
 y 601 PMWSTESBEKFEKTKCMINOYNYWKKK-GLNVKGRKRTLGENIADNGGKREAFYARK 659  
 b 597 DWSNFSARHFQOQSCMIYQYGNFSEWELADNQNVNGFSSGENIADNGGKRYQAYKYL 656  
 y 660 WINDRRQGLEEPLLPGITFTNNQLFSLYAHVRCNSYRPEAAREQVQIGASPPQFVNG 719  
 b 657 WLAD--GGKDRQLPGLNLTYAQLEFFINVAQVWCGSYRPEFAVQSIKTDVHSPKRYVLG 713  
 y 720 AISNSEEFQKAFNCPNPMNMGDSCLW 749  
 b 714 SLQNLPGFSEAFHCRGSPMH-PMKRCRIW 742

## RESULT 2

S-09-704-611-1  
 Sequence 1, Application US/09704611  
 Patent No. 6548284  
 GENERAL INFORMATION:  
 APPLICANT: JCR Pharmaceuticals Co., Ltd.  
 TITLE OF INVENTION: Membrane-Bound Metalloprotease and Soluble Secreted Form Thereof  
 FILE REFERENCE: Gp30  
 CURRENT APPLICATION NUMBER: US/09/704,611  
 CURRENT FILING DATE: 2000-11-03  
 NUMBER OF SEQ ID NOS: 9  
 SEQ ID NO 1  
 LENGTH: 765  
 TYPE: PRT  
 ORGANISM: Mus musculus  
 S-09-704-611-1

Query Match 34.6%; Score 1368.5; DB 4; Length 765;  
 Best Local Similarity 38.7%; Pred. No. 8.3e-126;  
 Matches 294; Conservative 148; Mismatches 267; Indels 51; Gaps 18;  
 y 18 GTRIALVFP--VGGTLVLGTLIF-----LVSQGLLSLOAKQBYCLKPECIEAAAAIL 67  
 b 29 GAIVTLGVFYSIGKQLPLTLTLHFSWDETVVKRALRDSLSKSDICTTPSCVIAAARIL 88  
 y 68 SKVNLSDVPCNFFRFACDGNWIPEDMPSYGVYVWLRHNVDLKLEKLSISRR 127  
 c 89 ENMDOSRPECNFYQYACGWLRRHVIPETSRYSVFDILDEVLKGVLEDSTSOHR 148  
 y 128 DTEATOKALYSSCMNEKAIEKADAPLLHLIRHSPFRWPVLESNIGPEGWMSER---K 184  
 c 149 --PAVEKAKTLYRSCMNQSVIEKROSEPLLSVLK--WVGWGPVALDK-----WNETMGLK 199  
 y 185 FSLQLTLATFRQYSNSVFIKLVSPDPAKASNEHTLKLQATLSLAVREDYLDNSTEAKS 244  
 c 200 WELERQLAVLNSQFNRVLIIDFVNDQNSRHYIIDQTLGMPREYFYQEDNNHK- 258  
 y 245 YRDALYKFMVDTAVL-----LGANSSRAEDHMSKVLRLKIAEIMIPHENRTS-EMAY 297  
 c 259 VRKAYPEMTSVATMLRKDONLSKESAMVRGEMAEVLETHLANATVPQKRHDVTALY 318  
 y 298 NKNMISELSAM--IPQFDMGLYIKV---IDTRLVPLKDISPENVVVRVVPQFKDLFR 352  
 c 319 HRMDLWELQERFGLGKFWNTUFIQNLVSSVELF-----PDEVVVYVGIPTLENLE 371  
 y 353 ILGSRKXTIANLYWRMYVRIPIPNLSRRFYRWLEFISRVIGQTTTLIPQWDKCVNFES 412  
 c 372 IIDSYSARTMQNLYLWRLDLRIGLSQRFKEARVDYRKALYGYITVEVRVRECVSYNS 431

Qy 413 ALPVYVGKMFVDYVFOBDKEMMEELVEGVWAFIDMLEKENWMDAGTKRKAKKARAV 472  
 Db 432 NMESAVGLYIKAFSKDSKSTVRELIEKIRSVFVDNLDLNL-WMDESKKAAQKAAVNI 490  
 Qy 473 LAKVGYBEFIM--NDTHVNEDLKAIFSEADYFGNVLQTRKYLAQSDFFWLKAVPKTETW 530  
 Db 491 REQIGYDYLLEDNNKHLDEEYSSLTFFEDLYFENGLOLKNNAQKSLKLRKVDQNLW 550  
 Qy 531 FTNPTTVNAYSASTNOIRFPAGELQKPEFFWGTETPRSLSYGAIGVIVGHEBTHGFDNNG 590  
 Db 551 IIGAAVVNAFYSNPNQIVFPAGILQPPFF-SKDQPSLNFQIGMWIGHEITHGFDNNG 609  
 Qy 591 RYDXKGNLDPWSTESBEKFEKTKCMINOYNYWKKK-GLNVKGRKRTLGENIADNGG 649  
 Db 610 RNFDXGNMLDWSNFSARHFQOQSCMIYQYGNFSEWELADNQNVNGFSSGENIADNGG 669  
 Qy 650 LREAFRAYRKWINDRRQGLEEPLLPGITFTNNQLFSLYAHVRCNSYRPEAAREQVQIGA 709  
 Db 670 VRQAYKAYLRWLD--GGKDRQLPGLNLTYAQLEFFINVAQVWCGSYRPEFAVQSIKTDV 726  
 Qy 710 HSPQPFVNGAISNSEEFQKAFNCPNPMNMGDSCLW 749  
 Db 727 HSPUKYRVLSLQNLPGFSEAFHCRGSPMH-PMKRCRIW 765

## RESULT 3

US-08-646-273-25  
 Sequence 25, Application US/08646273  
 Patent No. 6068502  
 GENERAL INFORMATION:  
 APPLICANT: Kroeger, Burkhard, Seubert, Harald, Meyer, Thomas, Schmidt,  
 TITLE OF INVENTION: Martin, Jacob, Elard, Otter, Rainer, Subkowski, Thomas, Hillen, Heinz.  
 APPLICANT: Martin, Jacob, Elard, Otter, Rainer, Subkowski, Thomas, Hillen, Heinz.  
 NUMBER OF SEQUENCES: 36  
 CORRESPONDENCE ADDRESS:  
 ADDRESSEE: Keil & Weinkauff  
 STREET: 1101 Connecticut Avenue  
 CITY: Washington  
 STATE: D.C.  
 COUNTRY: USA  
 ZIP: 20036

COMPUTER READABLE FORM:  
 MEDIUM TYPE: Diskette, 3.5 inch, 1.4 Mb storage  
 COMPUTER: IBM AT-compatible, 80486 processor  
 OPERATING SYSTEM: MS-DOS version 6.0  
 SOFTWARE: WordPerfect version 5.1  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08/646,273  
 FILING DATE: 16-NOV-1994  
 CLASSIFICATION: 435  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: PCT/EP94/03706  
 FILING DATE: 11-NOV-1994  
 INFORMATION FOR SEQ ID NO: 25:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 703 amino acids  
 TYPE: amino acid  
 STRANDEDNESS: single  
 TOPOLOGY: linear  
 MOLECULE TYPE: protein  
 US-08-646-273-25

Query Match 31.8%; Score 1257; DB 3; Length 703;  
 Best Local Similarity 37.6%; Pred. No. 7.4e-115;  
 Matches 281; Conservative 126; Mismatches 276; Indels 64; Gaps 21;  
 Qy 21 IALVVFVGGTFLVLTILFVLSQGLLSLOAKQBYCLKPECIEAAAAILSKVNLSDVPCDNF 80  
 Db 3 WLWVL---LAAGLVACLAALGIQYQTRSPSVCLSEACVSVTSSILSSMDPIVDFCHDF 58  
 Qy 81 FRACDGTWNNIPEDMPSYGVYVWLRHNVDLKLEKLSISRRDTEATQKALIS 140  
 Db 59 FSYACGWTKANVPDGHRSRWGTFSLWHEHNOAIKHLLENSTA--SVSEAEKKAQVYR 116

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141 SCNKEAIEKADAKPILLHLRHSPRPWPVLESNIGEGVMSERKFSLLQTLATFRQVSN 200
117 ACNNEIRIEELRAKPLMEILRLG-GWNI-----TGPWAKDNFQ--DTLQVVTAAHYRT 166
201 SVFIRLVSPDDKASNEHILKLDQATLSLAVREDYLDNSTEAKSYRDALYKFMVDVAVLL 260
167 SPFSVYVSADSKNSNSNVIOVDQSLGPSRDYLL-NKTENEKVLGTGLNVMVQLGKLL 225
261 GANSSRA-EHDMKSVLRLEIKIAIMIPHENTSEAM-YNKQNISLSAMIPQFDWLGVI 318
226 GGGDEEAIROPQOQILDFETALANITIPQEKRRDELIYHKVTAELQTLAPAINWLPF- 284
319 KKVIDTRLVPHLKDISPENVVVRVPOYFKDLFRILGSRKKTIANVLYVRVYSRIPNL 378
285 ---LNTIFYP--VEINSEPIVVDKYLEQISTLINTDRCLLNMYIMNLVKTSSFL 339
379 SRFOYRWLEFSRVIQGT-TTLQPOWDKCNFIESALPYVVGKMFVDVYFQEDKEMMEE 437
340 DORFQDADEKFMVYGTGKTCLPRKFCVSDTENNLFALGPMFVKATFAEDSKSIATE 399
438 LVEGVWAFIDMLEKENEMWDAGTKRKAKERAVLAKVGYPEFIM-----NDTHV 488
400 ILLEIKKAFESL-STLKWMDDETRKSAKADAIYNNMIGYFNIMDPKELOKVFNDYTA 458
489 NEDLKAIFSEADYFGNVLOTRKYLQSDFFW-----LRKAVPKTEWFTNPTTNAFYS 542
459 VPDL-----YFENAMRF-----FNFSWRVTADQLRKAPNRDQWSMTPPMNAFYS 503
543 ASTNQIRFPAGELQKPFWGTETPRSLSYGAIGVIVGHEFTHGFDNNGRKYDKGNLDPW 602
504 PTKNEIVFPAGILOAPFYTRSS-PKALNFGGIGVVVGHELTAFDQDQGREYDKGNLRPW 562
603 WTESEKEKFKTKCMINOYSNYWKAGLVNKGKRTLGENIADNGGLREAFRAYRKWIN 662
563 WKNSSVEAFKQTECMVEQYSNY--SVNGEPVNGRHTLGENIADNGGLKAYRAYQNWV- 619
663 DRROGLEEPLLPGITFTNNQLFSLVAHVRCNSYRPEAAEQVQIGAHSPPOFRVNGAIS 722
620 -KNGAEHS-LPTLGLTNNQLFPLGFAQVWCVSRTPESSHEGLITDPHSPSRFRVIGLS 677
723 NSEEFQKAFNCPPNSTNMGMDSCRLW 749
678 NSKEFSEHFRCPGSPMN-PPHKCEVW 703

```

## RESULT 4

S-08-646-273-36

Sequence 36, Application US/08646273

Patent No. 6066502

GENERAL INFORMATION:

APPLICANT: Kroeger, Burkhard, Seulberger, Harald, Meyer, Thomas, Schmidt,

APPLICANT: Martin, Jacob, Elard, Otter, Rainer, Subkowski, Thomas, Hillen,

TITLE OF INVENTION: Endothelin Converting Enzyme (ECE).

NUMBER OF SEQUENCES: 36

CORRESPONDENCE ADDRESS:

ADDRESSEE: Keil &amp; Weinkauff

STREET: 1101 Connecticut Avenue

CITY: Washington

STATE: D.C.

COUNTRY: USA

ZIP: 20036

COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette, 3.5 inch, 1.4 Mb storage

COMPUTER: IBM AT-compatible, 80486 processor

OPERATING SYSTEM: MS-DOS version 6.0

SOFTWARE: WordPerfect version 5.1

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/646,273

FILING DATE: 16-NOV-1994

CLASSIFICATION: 435

PRIOR APPLICATION DATA:

APPLICATION NUMBER: PCT/EP94/03706

FILING DATE: 11-NOV-1994

INFORMATION FOR SEQ ID NO: 36:

SEQUENCE CHARACTERISTICS:

LENGTH: 753 amino acids

TYPE: amino acid

TOPOLOGY: linear

MOLECULE TYPE: protein

US-08-646-273-36

Query Match

Best Local Similarity 31.8%; Score 1257; DB 3; Length 753;

Matches 281; Conservative 126; Mismatches 276; Indels 64; Gaps 21;

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21 IALVVFVCGTILVLITFLVSGQLLSLOAKQYCLKPECIEAAAAAAILSKVNLSDPCDNF 80
53 VLVVVL-----LAAGLVACLAALGIGYQTRSPSVCLSEACSVTSILSSMDPTVDPCHDF 108
81 FRFACDGMISNNPIPEDMPSYGVYPWLRHNVDLKLKELLEKSISSRRRDETEAIQAKILYS 140
109 FSYACGGMKANPVPDGHSGRWGTFSLNWEHQAIIKHLENSTA--SVSEAEKAAQVYVR 166
141 SCNKEAIEKADAKPILLHLRHSPRPWPVLESNIGEGVMSERKFSLLQTLATFRQVSN 200
167 ACNNEIRIEELRAKPLMEILRLG-GWNI-----TGPWAKDNFQ--DTLQVVTAAHYRT 216
201 SVFIRLVSPDDKASNEHILKLDQATLSLAVREDYLDNSTEAKSYRDALYKFMVDVAVLL 260
217 SPFSVYVSADSKNSNSNVIOVDQSLGPSRDYLL-NKTENEKVLGTGLNVMVQLGKLL 275
261 GANSSRA-EHDMKSVLRLEIKIAIMIPHENTSEAM-YNKQNISLSAMIPQFDWLGVI 318
276 GGGDEEAIROPQOQILDFETALANITIPQEKRRDELIYHKVTAELQTLAPAINWLPF- 334
319 KKVIDTRLVPHLKDISPENVVVRVPOYFKDLFRILGSRKKTIANVLYVRVYSRIPNL 378
335 ---LNTIFYP--VEINSEPIVVDKYLEQISTLINTDRCLLNMYIMNLVKTSSFL 389
379 SRFOYRWLEFSRVIQGT-TTLQPOWDKCNFIESALPYVVGKMFVDVYFQEDKEMMEE 437
390 DORFQDADEKFMVYGTGKTCLPRKFCVSDTENNLFALGPMFVKATFAEDSKSIATE 449
438 LVEGVWAFIDMLEKENEMWDAGTKRKAKERAVLAKVGYPEFIM-----NDTHV 488
450 ILLEIKKAFESL-STLKWMDDETRKSAKADAIYNNMIGYFNIMDPKELOKVFNDYTA 508
489 NEDLKAIFSEADYFGNVLOTRKYLQSDFFW-----LRKAVPKTEWFTNPTTNAFYS 542
509 VPDL-----YFENAMRF-----FNFSWRVTADQLRKAPNRDQWSMTPPMNAFYS 553
543 ASTNQIRFPAGELQKPFWGTETPRSLSYGAIGVIVGHEFTHGFDNNGRKYDKGNLDPW 602
554 PTKNEIVFPAGILOAPFYTRSS-PKALNFGGIGVVVGHELTAFDQDQGREYDKGNLRPW 612
603 WTESEKEKFKTKCMINOYSNYWKAGLVNKGKRTLGENIADNGGLREAFRAYRKWIN 662
613 WKNSSVEAFKQTECMVEQYSNY--SVNGEPVNGRHTLGENIADNGGLKAYRAYQNWV- 669
663 DRROGLEEPLLPGITFTNNQLFSLVAHVRCNSYRPEAAEQVQIGAHSPPOFRVNGAIS 722
670 -KNGAEHS-LPTLGLTNNQLFPLGFAQVWCVSRTPESSHEGLITDPHSPSRFRVIGLS 727
723 NSEEFQKAFNCPPNSTNMGMDSCRLW 749
728 NSKEFSEHFRCPGSPMN-PPHKCEVW 753

```

## RESULT 5

US-08-289-112-2

Sequence 2, Application US/08289112

Patent No. 568640

GENERAL INFORMATION:

APPLICANT: Yanagisawa, Masashi

TITLE OF INVENTION: Endothelin Converting Enzyme-1: A

TITLE OF INVENTION: Membrane-Bound Metalloprotease That Catalyzes The  
 TITLE OF INVENTION: Proteolytic Activation of Big Endothelin-1  
 NUMBER OF SEQUENCES: 5  
 CORRESPONDENCE ADDRESS:  
 ADDRESS: Arnold, White & Durkee  
 STREET: P.O. Box 4433  
 CITY: Houston  
 STATE: TX  
 COUNTRY: USA  
 ZIP: 77210-4433  
 COMPUTER READABLE FORM:  
 MEDIUM TYPE: Floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: PatentIn Release #1.0, Version #1.25  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08/289,112  
 FILING DATE: 10-APR-1994  
 CLASSIFICATION: 435  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Parker, David L.  
 REGISTRATION NUMBER: 32,165  
 REFERENCE/DOCKET NUMBER: UTSD:414/PAR  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: 713-787-1400  
 TELEFAX: 713-789-2679  
 TELEX: 79-0924  
 INFORMATION FOR SEQ ID NO: 2:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 758 amino acids  
 TYPE: amino acid  
 TOPOLOGY: linear  
 MOLECULE TYPE: protein  
 JS-08-289-112-2

Query Match 31.5%; Score 1248.5; DB 1; Length 758;  
 Best Local Similarity 37.9%; Pred. No. 5.8e-114;  
 Matches 282; Conservative 121; Mismatches 281; Indels 61; Gaps 21;  
 2y 23 LVVFGTGLVLTILFLVSGGLSLQAKQEVCLKPECIEAAAILSKVNLSDPCDNFR 82  
 57 LVVLV-ALLAALVACLAVLGIQYQYTRTPSVCLSEGLSVTSILSMDDTPVDCQDFT 115  
 83 FACDGMISNNPIPEDMPSYGVYVPLRHNVDLKLKELLEKSISRRTDEALQAKILYSSC 142  
 116 YACGGWIKANPVDPDCHSRWGTFSNLEHNAIHKHLENSTA--SVSEAEKKAQVYRAC 173  
 143 MNEKAIERAKADAKPLHLHRSPPRPVLESNIGPEGVMSERKESLQTLATFRGOYSNSV 202  
 174 MNETRIELKAKPLMELIEKLG-GWNI-----TGPWCKDNFQ--DTLQVVTSHYHTSP 223  
 203 FIRLYVSPDDKASNEHLKLDQATLSLAVREDYLDNSTEAKSYRDALYKFMVDTAVLLGA 262  
 224 FFSVYVSADSKNSNVIOVQDSGLGPSRDYLL-NKTENEKVLGTGLVNYVQLKLG 282  
 263 NS-SRAEDMKSVLRLBKIAEIMIPHENTSEAM-YKQNISELSEAMIPQFWLGIYKK 320  
 283 GAEDTIRPQQQLDFTALANITIPQEKRDDELIYHKVTAELQTLAPAINWLPF--- 339  
 321 VIDTRLYPLHLKDIPSNSVNVVRVQVFKDLFRILGSRKKTIANLYVWRMVYSRIPLSR 380  
 340 -LNTIFYP--VEINSEFPVIYQKEY:SKYSTJLNSDCKLLNMYLNLVKTSSFLDQ 396  
 381 RFQYRWLEFSRVIGT--TTLPLQWDKVNFIKESALPVVGMKFDVDFQDDKEMMEELV 439  
 397 RFQDADEKFEVYGTGKTKCLPQWKFVCSVTENTLGLPAGFMFVKATFADSDSNIASEII 456  
 440 EGVWRWAFIDMLEKENENWMDAGTKRKAKEKARAVLAKVGYPEFIM-----NDTHVNE 490  
 457 LEIKKAEESL-SFLKWNDETRKSAKEKADALYNNMIGYFNFMDFKELDKVNDTAVP 515  
 491 DLKAIKFESEADYFGNVLOTRKYLAQSDFFV-----LRKAVPTKTEFTPTNTVNAFYSAS 544

516 DL-----YFENAMRF-----FNFSWRVTADQLRKAPNRDQMSMTTPMVNAYSPT 560  
 545 TNQIRFAGELQKPPFWCTEYPRSLSYGALGVIVGHEFTGHGDNNGRKYDKNGNLDPMWS 604  
 561 KNEIVFPAGILQAPFYTRSS-PNALNFGIGVVGREHETHAFDDQGRYDKDGNLRPMWK 619  
 605 TESEKFEKTKCMINQYSNYYWKAGLVNKGKRTGLGENIADNGGLRBAFRAYRWINDR 664  
 620 NSSVEAFKQACMVEQYGYN--SVNGEPVNGRHTLGENIADNGGLKAAAYRAYQWV--K 675  
 665 RQLEBEPPLPGITFTNNQLFSLYAHVRCNSYRPEAAEQVQIGAHSPQERFVNGAISNS 724  
 676 KNGAEQ-TLPTLGLTNNQLFLPSFGQVMCSVRTPESSHEGLITDHPSPSRFVIGSINS 734  
 725 EBFQKAFNCPNPNSTNRGWDSCRLW 749  
 735 KEFSEHFHCPCGSPWN-PHHKCEVW 758  
 RESULT 6  
 US-08-646-273-23  
 ; Sequence 23, Application US/08646273  
 ; Patent No. 6066502  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Kroeger, Burkhard, Seulberger, Harald, Meyer, Thomas, Schmidt,  
 ; APPLICANT: Martin, Jacob, Elard, Otter, Rainer, Subkowski, Thomas, Hillen, Heinz.  
 ; TITLE OF INVENTION: Endothelin Converting Enzyme (ECE).  
 ; NUMBER OF SEQUENCES: 36  
 ; CORRESPONDENCE ADDRESS:  
 ; ADDRESSEE: Keil & Weinkauff  
 ; STREET: 1101 Connecticut Avenue  
 ; CITY: Washington  
 ; STATE: D.C.  
 ; COUNTRY: USA  
 ; ZIP: 20036  
 ; COMPUTER READABLE FORM:  
 ; MEDIUM TYPE: Diskette, 3.5 inch, 1.4 Mb storage  
 ; COMPUTER: IBM AT-compatible, 80486 processor  
 ; OPERATING SYSTEM: MS-DOS version 6.0  
 ; SOFTWARE: WordPerfect version 5.1  
 ; CURRENT APPLICATION DATA:  
 ; APPLICATION NUMBER: US/08/646,273  
 ; FILING DATE: 16-NOV-1994  
 ; CLASSIFICATION: 435  
 ; PRIOR APPLICATION DATA:  
 ; APPLICATION NUMBER: PCT/EP94/03706  
 ; FILING DATE: 11-NOV-1994  
 ; INFORMATION FOR SEQ ID NO: 23:  
 ; SEQUENCE CHARACTERISTICS:  
 ; LENGTH: 708 amino acids  
 ; TYPE: amino acid  
 ; TOPOLOGY: linear  
 ; MOLECULE TYPE: protein  
 ; US-08-646-273-23

Query Match 31.4%; Score 1241.5; DB 3; Length 708;  
 Best Local Similarity 37.9%; Pred. No. 2.5e-113;  
 Matches 282; Conservative 120; Mismatches 282; Indels 61; Gaps 21;  
 23 LVVFGTGLVLTILFLVSGGLSLQAKQEVCLKPECIEAAAILSKVNLSDPCDNFR 82  
 7 LVVLV-ALLAALVACLAVLGIQYQYTRTPSVCLSEGLSVTSILSMDDTPVDCQDFT 65  
 83 FACDGMISNNPIPEDMPSYGVYVPLRHNVDLKLKELLEKSISRRTDEALQAKILYSSC 142  
 66 YACGGWIKANPVDPDCHSRWGTFSNLEHNAIHKHLENSTA--SVSEAEKKAQVYRAC 123  
 143 MNEKAIERAKADAKPLHLHRSPPRPVLESNIGPEGVMSERKESLQTLATFRGOYSNSV 202  
 124 MNETRIELKAKPLMELIEKLG-GWNI-----TGPWCKDNFQ--DTLQVVTSHYHTSP 173  
 203 FIRLYVSPDDKASNEHLKLDQATLSLAVREDYLDNSTEAKSYRDALYKFMVDTAVLLGA 262

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Db 174 FFSVVSADSKNSNSNVIQVDSGLGPSRDYLL-NKTENEKVLTYLNYVMVQLKGG 232
2Y 263 NS-SRAEHDMSKVLRLKIKAEIMIPHENSTSEAM-YNKMNISELSSAMIQDFWLGYIKK 320
Db 233 GAEDTIRPQMOQILDFETALANITIPQEKRRDEELIYHKVTAALQTLAPAINLPPF--- 289
2Y 321 VIDTRLYPHLKD:ISPSENVVVRVPQYFKDLFRILGSRKKTIANLYLWVRMVSRIPLNSR 380
Db 290 -LNTIFYP--VEINSEPIVIYDKYLSKVSTLINSTDKCLLNNYMIWNLVRKTSFLLDQ 346
2Y 381 RFQYRWLEFSRVIGQT-TTLPLQWDKCVNFIESALPYVVGKMFVDVYFQEDKKEMEELV 439
Db 347 RFQDADEKFMVYGTCTCLPRWKFCVSDTENTLGFALGPMFVKATFAEDSKNIASEII 406
2Y 440 EGRVWAFIDMLEKENEMWDAGTKRKAKARAVLAKVGYPEFIM-----NDTHVNE 490
Db 407 LEIKKAFESL-STLKNWDEDTKSAKAKADAIYNNMIGYFNFMDPKELDKVENDYATVP 465
2Y 491 DLKAKFSEADYFGNVLOTRKYLAQSDFFW-----LRKAVPKTEWFTNPTTNAFYSAS 544
Db 466 DL-----YFENAMRF-----FNFSWRVTADQLRKAPNRDQWMTPPMVNAYSPT 510
2Y 545 TNOIRFPAGELQKPFPGTWTEPRSLSYGAIGVTVGHEFTHGPDNNGRKDKNGNLDPMWS 604
Db 511 KNEIVFPAGILQAPFYTRSS-PNALNFGGIGVVVGHLELTHAFDDQGREYDKGNLRPMWK 569
2Y 605 TESEBKFEKTKCMINOYSNYWKAGLVKGTTLGENIADNGLGLREAFYRKWINDR 664
Db 570 NSSVEAFKQQTACWVEQYGNV--SVNGEPVNGRHTLGENIADNGLGLKAAYRAYQNVV--K 625
2Y 665 ROGLEEPPLPGITFTNNQLFELSYAHRVNCNSYRPEAAREQVQIGAHSPQPRVNGAISNS 724
Db 626 KNGAEQ-TLPTLGLTNNQLFELSPAQWCVSRTPESSHEGLITDPHSPSRFRVIGSINS 684
2Y 725 EFQKAPNCPNPNMNRGMDSCRLW 749
Db 685 KEFSEHFCHCPPGSPMN-PHHKCEVM 708

RESULT 7
US-08-646-273-30
Sequence 30, Application US/08646273
Patent No. 6066502
GENERAL INFORMATION:
APPLICANT: Kroeger, Burkhard, Seuilberger, Harald, Meyer, Thomas, Schmidt,
APPLICANT: Martin, Jacob, Elard, Otter, Rainer, Subkowski, Thomas, Hillen, Heinz.
TITLE OF INVENTION: Endothelin Converting Enzyme (ECE).
NUMBER OF SEQUENCES: 36
CORRESPONDENCE ADDRESSES:
ADDRESS: Keil & Weinkauf
STREET: 1101 Connecticut Avenue
CITY: Washington
STATE: D.C.
COUNTRY: USA
ZIP: 20036
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.5 inch, 1.4 Mb storage
COMPUTER: IBM AT-compatible, 80486 processor
OPERATING SYSTEM: MS-DOS version 6.0
SOFTWARE: WordPerfect version 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/646,273
FILING DATE: 16-NOV-1994
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/EP94/03706
FILING DATE: 11-NOV-1994
INFORMATION FOR SEQ ID NO: 30:
SEQUENCE CHARACTERISTICS:
LENGTH: 754 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein

```

US-08-646-273-30

```

Query Match 31.4%; Score 1241.5; DB 3; Length 754;
Best Local Similarity 37.9%; Pred. No. 2.8e-113;
Matches 282; Conservative 120; Mismatches 282; Indels 61; Gaps 21;

QY 23 LVVVGTVLGTILFLVSQGLSLQAKQVEYCLKPECIEAAAAILSKVNLSDPCDNFR 82
DB 53 LVLV-ALLAALVLAFLVGLQYQTRTPSVCLSEACISVTSSIISSMDPTVDPQDFFT 111
QY 83 PACDGMISNNPIPEDMPSYGVYVPLRHNNVDLKKELLEKSIISRRRDTAEIAQKAILYS 142
DB 112 YACGWIKANPVPDGHRSRGWGTESNLWEHNOAILKHLENSTA--SVSEAEKRDQVEYRAC 169
QY 143 MNEKAIKADAKAPLLHLHLSHSPRPVLESNPGSVWSEKFSLLQTLATRGQYSNSV 202
DB 170 MNETRIELKAPLMELIEKLG-GWNI-----TGPMDKDNFO--DTLQVVTSHYHTSP 219
QY 203 FIRLVSPDDKASNEHILKLDQATLSLAVREDYLDNSTEAKSYRDALYKFMVDYATVLLCA 262
DB 220 FFSVVSADSKNSNSNVIQVDSGLGPSRDYLL-NKTENEKVLTYLNYVMVQLKGG 278
QY 263 NS-SRAEHDMSKVLRLKIKAEIMIPHENSTSEAM-YNKMNISELSSAMIQDFWLGYIKK 320
DB 279 GAEDTIRPQMOQILDFETALANITIPQEKRRDEELIYHKVTAALQTLAPAINLPPF--- 335
QY 321 VIDTRLYPHLKD:ISPSENVVVRVPQYFKDLFRILGSRKKTIANLYLWVRMVSRIPLNSR 380
DB 336 -LNTIFYP--VEINSEPIVIYDKYLSKVSTLINSTDKCLLNNYMIWNLVRKTSFLLDQ 392
QY 381 RFQYRWLEFSRVIGQT-TTLPLQWDKCVNFIESALPYVVGKMFVDVYFQEDKKEMEELV 439
DB 393 RFQDADEKFMVYGTCTCLPRWKFCVSDTENTLGFALGPMFVKATFAEDSKNIASEII 452
QY 440 EGRVWAFIDMLEKENEMWDAGTKRKAKARAVLAKVGYPEFIM-----NDTHVNE 490
DB 453 LEIKKAFESL-STLKNWDEDTKSAKAKADAIYNNMIGYFNFMDPKELDKVENDYATVP 511
QY 491 DLKAKFSEADYFGNVLOTRKYLAQSDFFW-----LRKAVPKTEWFTNPTTNAFYSAS 544
DB 512 DL-----YFENAMRF-----FNFSWRVTADQLRKAPNRDQWMTPPMVNAYSPT 556
QY 545 TNOIRFPAGELQKPFPGTWTEPRSLSYGAIGVTVGHEFTHGPDNNGRKDKNGNLDPMWS 604
DB 557 KNEIVFPAGILQAPFYTRSS-PNALNFGGIGVVVGHLELTHAFDDQGREYDKGNLRPMWK 615
QY 605 TESEBKFEKTKCMINOYSNYWKAGLVKGTTLGENIADNGLGLREAFYRKWINDR 664
DB 616 NSSVEAFKQQTACWVEQYGNV--SVNGEPVNGRHTLGENIADNGLGLKAAYRAYQNVV--K 671
QY 665 ROGLEEPPLPGITFTNNQLFELSYAHRVNCNSYRPEAAREQVQIGAHSPQPRVNGAISNS 724
DB 672 KNGAEQ-TLPTLGLTNNQLFELSPAQWCVSRTPESSHEGLITDPHSPSRFRVIGSINS 730
QY 725 EFQKAPNCPNPNMNRGMDSCRLW 749
DB 731 KEFSEHFCHCPPGSPMN-PHHKCEVM 754

```

## RESULT 8

```

US-09-819-989-4
; Sequence 4, Application US/09819989
; Patent No. 6482629
; GENERAL INFORMATION:
; APPLICANT: Wei, Ming-Hui et al.
; TITLE OF INVENTION: ISOLATED HUMAN ENZYME PROTEINS, NUCLEIC
; TITLE OF INVENTION: ACID MOLECULES ENCODING HUMAN ENZYME PROTEINS, AND USES
; TITLE OF INVENTION: THEREOF
; FILE REFERENCE: CL001200
; CURRENT APPLICATION NUMBER: US/09/819,989
; CURRENT FILING DATE: 2001-03-29
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: Fast-Seq for Windows Version 4.0

```

; SEQ ID NO 4  
; LENGTH: 765  
; TYPE: PRT  
; ORGANISM: Human  
US-09-819-989-4

Query Match 30.9%; Score 1222.5; DB 4; Length 765;  
Best Local Similarity 35.4%; Pred. No. 2.2e-111;  
Matches 270; Conservative 145; Mismatches 302; Indels 45; Gaps 20;

QY 4 ETGSS--VETG-KKANR--GTRIAL-VFVGCTLVLTILF--LVSQGL--LSLQAKQE 52  
DB 33 EGGASPDAMEVGFQKGRFOLLGSRSTQLVLVLAGASLLJLAALLGLCLVALGVQYHRDPSHS 92  
QY 53 YCLKPECIEAAAAIILSKVNLSDVDCDNPFRFACDGNWISNNPIPEMPSYGVYFWLRNVD 112  
DB 93 TCLTEACIRVAKGILESLDROGVSPCEDFYQFSCGQWIRRNPLPDGRSRWNTFNSLWDQNG 152  
QY 113 LKLKELLEKTSRRRDTEAIOKAKILYSSCMNEKAIEKADAKPLHLHILRHSPFPWPVLES 172  
DB 153 AILXHLLENT--TFNSSEAEQKTOFYLSCLOVERIEELGAQPLRDLI-----E 200  
QY 173 NIGP---EGVMSERKFSLLQTLATFRGOYSNFIIRLYVSPDDKASNEHLKLDQATLSL 229  
DB 201 KIGGWNITGPDQDNF--MEYLKAVAGTYRATPFTFVVISADSKSSNSNVIQVDSGLFL 258  
QY 230 AVREDYLDNSTEAKSYRDALYKFMVDVAVILLGANSRAEHDMKSVLRLEIKIABIMIPH- 288  
DB 259 PSRDYLL-NRTANRKYLVATYLDYMEELGMLLGGRTSTREQMQOVLLEIQLANITVPQD 317  
QY 289 ENRTSEAMYNKONISELSAMIPQFDWLGVIKKVIDTRLYPHLKDIPSENVVRVPOYFK 348  
DB 318 QRRDEEKIYHKMSISELOALAFSDMDLEFLSFLSP-----LELSDSEPVVYVGM DYLQ 371  
QY 349 DLFRLIGSERKKT;ANYLVAMVWYSRIPNLRRRQYRWLEFSRVIQGT-TTLTPQWDKCV 407  
DB 372 QVSELINRTEFISILNNYLIWNLVQKTTSSLDRRRFEQAQKLETLVGTKKSCVPRWQTCI 431  
QY 408 NFIESALPVVYVGMFVDVYFOEDKEMMEELVEGVWAFIDMLEKENWMDAGTKRKAKE 467  
DB 432 SNTDDALGFALGSLFVKATFDRQKEIAEGMISIRTAFAEAL-GQLVWMDKTRQAQKE 490  
QY 468 KARAVLAKVGYPEFTMDTHVNEIDLKATFSEADYFGNVLQTRKYLAQSDFFWLRKAVPK 527  
DB 491 KADAIYDMIGPDPFLEPEKLEDDVYDGYEISEDSFFQNMNLNYSKAWADQLRKPPSR 550  
QY 528 TEWFTNPTTVNAFYSASNTQIRFPAGELQKPFPGTEYPRSLSYCAIGVIVGHEFTHGFD 587  
DB 551 DOWSMTPTQVNAVYLP;TNEIVFPAGILQAPFY-ARNHPKALNFGGIGVWGMGHELTHAFD 609  
QY 588 NNGRYDKNGNLDPMWSTSESEKTEKTCMINSYNYWKAGLVNKGKRTLGENTADN 647  
DB 610 DQGREYDKGNLRLPMWQNESLAAFRNHTACMBEQNYQ--QVNGERLNGRQTLGENTADN 667  
QY 648 GGLREAFRAYRKWINDRRQGLEEPLPGITFTNNQLFSLYAHVRCNSYRPEAAAEQVQI 707  
DB 668 GGLKAAAYNAYKAWL--RKHG-BEQQLPAVGLTNHQLFFVFGAQVWCSVRTPESSHEGLVT 724  
QY 708 GAHSPQPRVNGAINSSEFOKAFNCPNPNSTNVRGMDSCRLLW 749  
DB 725 DPHSPARFVLGTLNSRDLRHFQCPVGSMPNPG-QLCEVW 765

## RESULT 9

US-09-819-989-2  
; Sequence 2, Application US/09819989  
; Patent No. 6482629  
; GENERAL INFORMATION:  
; APPLICANT: WEI, Ming-Hui et al.  
; TITLE OF INVENTION: ISOLATED HUMAN ENZYME PROTEINS, NUCLEIC  
; ACID MOLECULES ENCODING HUMAN ENZYME PROTEINS, AND USES  
; THEREOF  
; FILE REFERENCE: CL001200

; CURRENT APPLICATION NUMBER: US/09/819,989  
; CURRENT FILING DATE: 2001-03-29  
; NUMBER OF SEQ ID NOS: 4  
; SOFTWARE: FASTSEQ for Windows Version 4.0  
; SEQ ID NO 2  
; LENGTH: 811  
; TYPE: PRT  
; ORGANISM: Human  
US-09-819-989-2

Query Match 30.8%; Score 1221; DB 4; Length 811;  
Best Local Similarity 35.2%; Pred. No. 3.4e-111;  
Matches 264; Conservative 144; Mismatches 303; Indels 38; Gaps 17;

QY 10 ETGKCANRTRIAL-VFVGCTLVLTILF--LVSQGL--LSLQAKQEYCLKPECIEAAAA 65  
DB 92 QXGTROLLGSRSTQLVLVLAGASLLJLAALLGLCLVALGVQYHRDPSHSTCLTEACIRVAK 151  
QY 66 ILKVNLSVDCDNPFRFACDGNWISNNPIPEMPSYGVYFWLRNVDLKLKELLEKSISR 125  
DB 152 ILSDROGVSPCEDFYQFSCGQWIRRNPLPDGRSRWNTFNSLWDQNAQLKHLLENT-IF 210  
QY 126 RRDTEAIOKAKILYSSCMNEKAIEKADAKPLHLHILRHSPFPVLESNIGP---EGVWSE 182  
DB 211 NNSSEAEQKTOFYLSCLOVERIEELGAQPLRDLI-----EKIGGWNITGPDQ 259  
QY 183 RKFSLLQTLATFRGOYSNFIIRLYVSPDDKASNEHLKLDQATLSLAVREDYLDNSTEA 242  
DB 260 DNF--NEVLKAVAGTYRATPFTFVVISADSKSSNSNVIQVDSGLFLPSRDYLL-NRTAN 316  
QY 243 KSYRDALYKFMVDVAVILLGANSRAEHDMKSVLRLEIKIABIMIPH-ENRTSEAMYNKON 301  
DB 317 EKVLTAIYLDYMEELGMLLGGRTSTREQMQOVLLEIQLANITVPQDQRRDEEKIYHKMS 376  
QY 302 ISELSAWIPQFDWLGVIKKVIDTRLYPHLKDIPSENVVRVPOYFKDLFRILIGSERKKT 361  
DB 377 ISLQALAFSDMDLEFLSFLSP-----LELSDSEPVVYVGM DYLQVSELINRTEPSI 430  
QY 362 IANYLVAMVWYSRIPNLRRRQYRWLEFSRVIQGT-TTLTPQWDKCNFIESALPVVVGK 420  
DB 431 LNNYLIWNLVQKTTSSLDRRRFEQAQKLETLVGTKKSCVPRWQTCISNTDDALGFALGS 490  
QY 421 MFVDVYFOEDKEMMEELVEGVWAFIDMLEKENWMDAGTKRKAKEKARAVLAKVGYPE 480  
DB 491 LFKATFDRQKEIAEGMISIRTAFAEAL-GQLVWMDKTRQAQKADAIYDMIGPDP 549  
QY 481 FIMNDTHVNEIDLKATFSEADYFGNVLQTRKYLAQSDFFWLRKAVPKTEWFTNPTTVNAF 540  
DB 550 FILEPEKLEDDVYDGYEISEDSFFQNMNLNYSKAWADQLRKPPSRDQMSMTPTQVNAV 609  
QY 541 YSASTNQIRFPAGELQKPFPGTEYPRSLSYCAIGVIVGHEFTHGPDNNGRYDKNGNLD 600  
DB 610 YLPTKNEIVFPAGILQAPFY-ARNHPKALNFGGIGVWGMGHELTHAFDQGREYDKGNL 668  
QY 601 PMWSTSESEKTEKTCMINSYNYWKAGLVNKGKRTLGENTADNGLREAFRAYRKW 660  
DB 669 PMWQNESLAAFRNHTACMBEQNYQ--QVNGERLNGRQTLGENTADNGLKAAAYNAYKAW 726  
QY 661 INDRQGLEEPLPGITFTNNQLFSLYAHVRCNSYRPEAAAEQVQI GAHSPQPRVNGA 720  
DB 727 L--RKHG-BEQQLPAVGLTNHQLFFVFGAQVWCSVRTPESSHEGLVTDPHSPARFVLGT 783  
QY 721 ISNSEFQKAFNCPNPNSTNVRGMDSCRLLW 749  
DB 784 LNSRDLRHFQCPVGSMPNPG-QLCEVW 811

## RESULT 10

US-09-667-373-4  
; Sequence 4, Application US/09667373  
; Patent No. 6524840  
; GENERAL INFORMATION:  
; APPLICANT: Donoho, Gregory

; APPLICANT: Turner, C. Alexander Jr.  
 ; APPLICANT: Nehls, Michael C.  
 ; APPLICANT: Friedrich, Glenn  
 ; APPLICANT: Zambrowicz, Brian  
 ; APPLICANT: Sands, Arthur T.  
 ; TITLE OF INVENTION: No. 6524840e1 Human Endothelin Converting  
 ; FILE REFERENCE: Enzyme-Like Proteins and Polynucleotides Encoding the Same  
 ; CURRENT APPLICATION NUMBER: US/09/667,373  
 ; CURRENT FILING DATE: 2000-09-22  
 ; PRIOR APPLICATION NUMBER: US 60/156,102  
 ; PRIOR FILING DATE: 1999-09-24  
 ; PRIOR APPLICATION NUMBER: US 60/176,689  
 ; PRIOR FILING DATE: 2000-01-18  
 ; NUMBER OF SEQ ID NOS: 5  
 ; SOFTWARE: FastSeq for Windows Version 4.0  
 ; SEQ ID NO 4  
 ; LENGTH: 883  
 ; TYPE: PRT  
 ; ORGANISM: homo sapiens  
 ; US-09-667-373-4

Query Match 30.8%; Score 1221; DB 4; Length 883;  
 Best Local Similarity 35.2%; Pred No 3.9e-111;  
 Matches 264; Conservative 144; Mismatches 303; Indels 38; Gaps 17;  
 QY 10 ETGKXNRGTAL-VVFGTTLVLTILF--LVSQGL-LSLOAKQYCLKPECIEAAAA 65  
 Db 164 QKGTROLLGSRTQLSELVLGASLLALLGLCLVALGVQYHRDPSSHSTCLTEACIRVAGK 223  
 QY 56 ILSKVNLSVPCDNFFRACDGMISNNPIPEDMPSYGVYPLRHNVDLKLKLEKSISR 125  
 Db 224 ILESDDRGVSPCEDFYQFCGGVRRPLPDGRSRWNTFNSLWQONQAILKHLENT-TF 282  
 QY 126 RRDTEAQKALYSSCMNEKAIEKADAKAPLLHLIRHSPPRPVLESNIGP---EGVWSE 182  
 Db 283 NSSEAEQKTRFYLSCLQVERIEELGAQPLDLI-----EKIGWNITGPDQ 331  
 QY 183 RKFSLLQTLATFRQYNSVIRLYVSPDDKASNEHLIKLDOATLSLAVREDYLDNSTEA 242  
 Db 332 DNF--MEVLKAVAGTYRATPFTFYVSADKSSNVIQVDSGLFLPSRDYLL-NRTAN 388  
 QY 243 KSYRDALYKFMVDVAVLIGANSSRAEHDMKSVLRLEIKIAMIPIH-ENRTSEAMYNKM 301  
 Db 389 EKVLTAVLDYMEELGMLLGGRTSTREQMOQVLEIQLANITVPQQRDEEKIYHMS 448  
 QY 302 ISELSAMIPQPDNLGYIKKVIDTLYPHLKDIPSENVVYRVQYFKDLPRILGSEKXT 361  
 Db 449 ISELQALAPSMDWLEFLSLSP-----LELSDSEFVYVYGMVLYQVSELINRTPEPI 502  
 QY 362 IANYLVWRMYVSRIPNLSRRFQYRWLSEFSRVIOGT-TTLTPQWDKVNFTIESALPYVVGK 420  
 Db 503 LNNYLIWNLVQKTTSSLDLRFESAEQKLELTLYGTKKSCVPRWQTCISNTDDALGFLGS 562  
 QY 421 MFVDVYFOEDKEMMEELVEGVRAFTDMLKENWMDAGTKRKAKKAAVLAQVYPE 480  
 Db 563 LFVKATIDROSKEIAEGMISEIRTAFEAL-GQLVWMDKTRQAAKEKADAIYDMIGFPD 621  
 QY 481 FIMNDTHVNDLKAIFSEADYFGNVLQTRKLAQSDFFWLKRAVPKTEFTPTTNPAP 540  
 Db 622 FILEPKELDQVYGYEISEDSFFQNLNLNFSKVMADQLRPPSDQSMPTQTVNAY 681  
 QY 541 YSASTNOIRPAGELQKPFPGWGTYPYSLSYGAIGTVIGHEFTGFDNNGKRYDKGNLD 600  
 Db 682 YLPTKNEIVFPAGILOAPFF-ARNHPKALNFGGIGVVMGHETHAFDDQREYDKGNLR 740  
 QY 601 PWNSTSEEFKFKTKMIOYNSYKWKAGLVNKGKRTIGENIADNGGLEAFRAVRKW 660  
 Db 741 PWCNESLAFRHTACMEQYKQY--QVNGERLNGRQTLGENIADNGGLKAAYNAYKAW 798  
 QY 661 INDRROGLEEPLIFGITTTNNQLFFLSYAHVRCNSYRPEAAAEQVGTGAHSPPPQFRVNGA 720  
 Db 799 L--RKHG-EEQQLPAVGLTNHQLFFVGVGAQVWCVSRTPESSHEGLVTDTPHSPARFVLGT 855

QY 721 ISNSEBFQKAFNCPNPMNMRGMDSCRLW 749  
 Db 856 LSNRSRDLRHRFGCPVGPSPNPG-QLCEVW 883  
 RESULT 11  
 US-08-574-763-2  
 ; Sequence 2, Application US/08574763  
 ; Patent No. 5736376  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Yanagisawa, Masashi  
 ; TITLE OF INVENTION: RECOMBINANT ENDOTHELIN CONVERTING  
 ; TITLE OF INVENTION: ENZYME-2 AND ITS USE IN ECE INHIBITOR SCREENING  
 ; NUMBER OF SEQUENCES: 7  
 ; CORRESPONDENCE ADDRESS:  
 ; ADDRESSEE: Arnold, White & Durkee  
 ; STREET: P. O. Box 4433  
 ; CITY: Houston  
 ; STATE: TX  
 ; COUNTRY: USA  
 ; ZIP: 77210-4433  
 ; COMPUTER READABLE FORM:  
 ; MEDIUM TYPE: Floppy disk  
 ; COMPUTER: IBM PC compatible  
 ; OPERATING SYSTEM: PC-DOS/MS-DOS  
 ; SOFTWARE: Patent In Release #1.0, Version #1.30  
 ; CURRENT APPLICATION DATA:  
 ; APPLICATION NUMBER: US/08/574,763  
 ; FILING DATE: Concurrently herewith  
 ; CLASSIFICATION: 530  
 ; ATTORNEY/AGENT INFORMATION:  
 ; NAME: Corder, Timothy S.  
 ; REGISTRATION NUMBER: 38,414  
 ; REFERENCE/DOCKET NUMBER: UTXD:472  
 ; TELECOMMUNICATION INFORMATION:  
 ; TELEPHONE: (512) 418-3000  
 ; TELEFAX: (512) 474-7577  
 ; INFORMATION FOR SEQ ID NO: 2:  
 ; SEQUENCE CHARACTERISTICS:  
 ; LENGTH: 787 amino acids  
 ; TYPE: amino acid  
 ; TOPOLOGY: linear  
 ; US-08-574-763-2  
 Query Match 29.9%; Score 1184; DB 1; Length 787;  
 Best Local Similarity 35.1%; Pred. No. 1.4e-107;  
 Matches 265; Conservative 138; Mismatches 313; Indels 38; Gaps 18;

QY 4 ETGSSVETCKKANRGTRIALVVFVGTTLVLTILF--LVSQGL-LSLOAKQYCLKPECI 60  
 Db 64 EAGFRKTRRLGLLHTQLLEVL-AGVSLALLGLCLVALGVQYHRDPSSHSTCLTEACI 122  
 QY 61 EAAAILSKVNLSVPCDNFFRACDGMISNNPIPEDMPSYGVYPLRHNVDLKLKELLE 120  
 Db 123 RVAGKILESDDRGVSPCEDFYQFCGGVRRPLPDGRSRWNSNSLWQONQAILKHILLE 182  
 QY 121 KSISSRRDTEAQKALYSSCMNEKAIEKADAKAPLLHLIRHSPPRPVLESNIG---PE 177  
 Db 183 NT-TFNSSEAEKTRFYLSCLQVERIEELGA---HALRD-----LIDKIGWNVT 230  
 QY 178 GWSERKFSLLQTLATFRQYNSVIRLYVSPDDKASNEHLIKLDOATLSLAVREDYLD 237  
 Db 231 GPWDQDNF--MEVLKAVAGTYRATPFTFYVSADKSSNVIQVDSGLFLPSRDYLL- 287  
 QY 238 NSTEAKSYRDALYKFMVDVAVLIGANSSRAEHDMKSVLRLEIKIAMIPIH-ENRTSEAM 296  
 Db 288 NRTANEKVLTAVLDYMEELGMLLGGQPTSTREQMQRVLEIQLANITVPQQRDEEKI 347  
 QY 297 YNKWMSIELSAMIPQPDNLGYIKKVIDTLYPHLKDIPSENVVYRVQYFKDLPRILGS 356  
 Db 348 YHMSIAELQALAPSMDWLEFLSLSP-----LELGDSEFVYVYGTDTYDQVSELINR 401



357 ERKKTIANVLRMYVSRIPNLRRFQYRWLEFBSRVIOCT-TTLLPQWDKCVNFIESALP 415  
367 VHMVYSRPNLSRRRQYRWLEFBSRVIOCTTTLLPQWDK-----CVNFIESALPVVVG 419  
402 TEPVNLNNLWVQKTTSSLDHRFESAQBKLETLTYGTXKSTPRWQOTCISNTDADLG 461  
416 YVGRMFVDVTFQEDKKEMMEELVEGVWAFIDMLEKENEMWDAGTKRKAKEKARAVLAK 475  
462 FALGSLFYKATFDROSKEIAEGMISEIRVAFEAL-GHLVWMDKTRQAAKEKADAIYDM 520  
476 VQYPEFINDTHVNDLKAIFSEADYFGNVLOTRKYLAQSDFFWLKXAVPKTEWFINPT 535  
521 IGFPPDIFLEKDLDDVGYEVSDESFQNNMLNLYNFSAKVNAQDLRKPSPRDQMSWTFP 580  
536 TVNAYFYSTNQRFPAGELQKPPFWGTXYPRSLSYGAIGVIVGHEFTHGFDNNGRYDK 595  
581 TVNAYFSTNQRFPAGELQKPPFWGTXYPRSLSYGAIGVIVGHEFTHGFDNNGRYDK 639  
596 NGNLDPMWSTESSEKPEKTKCMINQYNYWKKAGLVNKKRITLGENIADNGGLREAPR 655  
640 EGNLRPMWQNESLAAPRNHTACIEQSYQY--QVNGEXKINGRQTLGENIADNGGLKAAYN 697  
656 AYKWINDRQGLBPLPGITFTNNQFLFSYAHVRCNSYRPEAARQVQIGAHSPPOF 715  
698 AYKWINDRQGLBPLPGITFTNNQFLFSYAHVRCNSYRPEAARQVQIGAHSPPOF 754  
716 RVNGAISNSEEFOKAFNCPNPNSTNMRGMDSCSLW 749  
755 RVGLTSLNSRDLRHFGCPVGVPMNSG-QLCBW 787

RESULT 12  
US-09-305-640-2  
; Sequence 2, Application US/09305640B  
; Patent No. 6255468  
; GENERAL INFORMATION:  
; APPLICANT: SmithKline Beecham plc  
; TITLE OF INVENTION: No 6255468el Compounds  
; FILE REFERENCE: GP30124  
; CURRENT APPLICATION NUMBER: US/09/305,640B  
; CURRENT FILING DATE: 1999-05-05  
; NUMBER OF SEQ ID NOS: 4  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 2  
; LENGTH: 775  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-305-640-2

Query Match 24.8%; Score 983.5; DB 3; Length 775;  
Best Local Similarity 31.0%; Pred. No. 8.9e-88;  
Matches 233; Conservative 158; Mismatches 294; Indels 67; Gaps 19;  
23 LVVFGTGLVLTILELVSGLLSL--QAKQYCLKPECIEAAAIL-SKNVLSVDPDCN 79  
66 LVFAAGLCALAAALKALYGPVAAAGGACPGCPKFAFAAFLAANLADSIDPOD 125  
80 FPFACDGMISNNPIEDMPSYGVYVWLRHNDLKLKELLEKSISRRRRTDTEAIQAKILY 139  
126 FYSFACGGLRRAHAPDDXLTGTIAAIGQNEERLRLLARP-GGGPGGAQRKVRAFF 184  
140 SSCMNEKAIEKADAKPLHLRHSPRPVPLESNIQEGVW-----SER-----KFSILQ 189  
185 RSCLDNREIERGPRMPLVEDC-----GGWDLGGABERPGVAAAWDLNR 230  
190 TLATTFQGSNSVFIRLYVSPDKASNEHILKLDQATLSLAVREDYLDNSTKSYRDL 249  
231 LLYKAGGVYSAALFSLTSLDRNSRVIRIDQDGLTPERTLYLAQDESEKILAA 290  
250 YKPMVDTAVLLGNSRAEDHMKSVLRLEIKTAEMIPHEN---RTSEAMYNKMMISELS 306  
291 RVFMRVLSLLGADA--VEQAKQEIQLVQQLANITVSEYDRLRRDVSVMYKVTILGQLQ 348  
307 AMTPOFDWLGYYIKVJIDTRLYPHLKDISPSENVVVRVPOYFKDLPRILGSEKKTIANYL 366

349 KITPLRWKWLDDQIFQ-----EDFSEEEVLLATDYMQQVSQLIRSTPHRVJHNYL 401  
367 VHMVYSRPNLSRRRQYRWLEFBSRVIOCTTTLLPQWDK-----CVNFIESALPVVVG 419  
402 VWRVVVVLSEHUSPPFREALHELAQMEGS-----DKPQELARVCLGQANRHFQMALG 454  
420 KMFVDVYFOEDKKEMMEELVEGVWAFIDMLEKENEMWDAGTKRKAKEKARAVLAKVGP 479  
455 ALFVHEHFAASAKVQQLVEDIKYILQORLE-ELDWMDAETRAAARAKLQYMMVWVGP 513  
480 EFMINDTHVNDLKAIFSEADYFGNVLOTRKYLAQSDFFWLKXAVPKTEWFINPTTVA 539  
514 DFLKLPDAVDKEYE-FEVHEKTYFKNLSIRFSIQLSVKKIRQEVKSTWLLPPOALNA 572  
540 FYSASTNQRFPAGELQKPPFWGTXYPRSLSYGAIGVIVGHEFTHGFDNNGRYDKXGNL 599  
573 YVLPNKNQVFPAGILQ-PTLYDPDFPQSLNYGGITIGHELTHGYDDWGGGYDRSGNL 631  
600 DPMWSTESSEKPEKTKCMINQYNY--VWKKAGLVNKKRITLGENIADNGGLREAPR 657  
632 LHMWTEASYSRFLRKABCIVRLYDNFTVNR----VNGKHTLGENIADNGGLKLAHAY 687  
658 RKWINDRQGLBPLPGITFTNNQFLFSYAHVRCNSYRPEAARQVQIGAHSPPOF 717  
688 QKWV--REHGP-HP-LPRLKYTHDQLEFFIAPAQNWCIKRSQSIYLVLTDKHAPHYRV 744  
718 NGAISNSEEFOKAFNCPNPNSTNMRGMDSCSLW 749  
745 LGSVVSQFEFGRAFHCPKDSPMNPA-HKCSW 775

RESULT 13  
US-08-646-273-19  
; Sequence 19, Application US/08646273  
; Patent No. 6066502  
; GENERAL INFORMATION:  
; APPLICANT: Krosger, Burkhard, Seulberger, Harald, Meyer, Thomas, Schmidt,  
; APPLICANT: Martin, Jacob, Elard, Otter, Rainer, Subkowski, Thomas, Hillen, Heinz.  
; TITLE OF INVENTION: Endothelin Converting Enzyme (ECE).  
; NUMBER OF SEQUENCES: 36  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Keil & Weinlauf  
; STREET: 1101 Connecticut Avenue  
; CITY: Washington  
; STATE: D.C.  
; COUNTRY: USA  
; ZIP: 20036  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Diskette, 3.5 inch, 1.4 Mb storage  
; OPERATING SYSTEM: IBM AT-compatible, 80486 processor  
; SOFTWARE: WordPerfect version 5.1  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/646,273  
; FILING DATE: 16-NOV-1994  
; CLASSIFICATION: 435  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: PCT/EP94/03706  
; FILING DATE: 11-NOV-1994  
; INFORMATION FOR SEQ ID NO: 19:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 567 amino acids  
; TYPE: amino acid  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein  
US-08-646-273-19

Query Match 24.3%; Score 963.5; DB 3; Length 567;  
Best Local Similarity 37.7%; Pred. No. 4.9e-86;  
Matches 226; Conservative 96; Mismatches 216; Indels 61; Gaps 21;  
106 WLRHNVLDKLKELLEKSISRRRRTDTEAIQAKILYSSCMNEKAIEKADAKPLHLRHSPF 165







GenCore version 5.1.6  
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OM protein - protein search, using sw model

Run on: December 3, 2003, 07:21:37 ; Search time 497.375 Seconds  
(without alignments)  
280.074 Million cell updates/sec

Title: US-09-913-955a-1

Perfect score: 3958

Sequence: 1 NEAETGSSVETGKKANRCTR.....AFNCPNSTMNRMGMSCLW 749

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 684280 seqs, 185983659 residues

Total number of hits satisfying chosen parameters: 684280

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications AA.\*

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- 2: /cgn2\_6/ptodata/1/pubpaa/PCT\_NEW\_PUB.pep.\*
- 3: /cgn2\_6/ptodata/1/pubpaa/US06\_NEW\_PUB.pep.\*
- 4: /cgn2\_6/ptodata/1/pubpaa/US06\_PUBCOMB.pep.\*
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- 6: /cgn2\_6/ptodata/1/pubpaa/PCTUS\_PUBCOMB.pep.\*
- 7: /cgn2\_6/ptodata/1/pubpaa/US08\_NEW\_PUB.pep.\*
- 8: /cgn2\_6/ptodata/1/pubpaa/US08\_PUBCOMB.pep.\*
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- 11: /cgn2\_6/ptodata/1/pubpaa/US09C\_PUBCOMB.pep.\*
- 12: /cgn2\_6/ptodata/1/pubpaa/US09\_NEW\_PUB.pep.\*
- 13: /cgn2\_6/ptodata/1/pubpaa/US10A\_PUBCOMB.pep.\*
- 14: /cgn2\_6/ptodata/1/pubpaa/US10B\_PUBCOMB.pep.\*
- 15: /cgn2\_6/ptodata/1/pubpaa/US10C\_PUBCOMB.pep.\*
- 16: /cgn2\_6/ptodata/1/pubpaa/US10\_NEW\_PUB.pep.\*
- 17: /cgn2\_6/ptodata/1/pubpaa/US60\_NEW\_PUB.pep.\*
- 18: /cgn2\_6/ptodata/1/pubpaa/US60\_PUBCOMB.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	1352	34.2	753	12	US-10-147-928-6
2	1333.5	33.7	779	12	US-10-147-928-4
3	1332.5	33.7	779	10	US-09-905-846-2
4	1332.5	33.7	779	15	US-10-017-273A-6
5	1322.5	33.4	691	12	US-10-147-928-2
6	1223	30.9	736	10	US-09-978-295A-526
7	1223	30.9	736	10	US-09-978-697-526
8	1223	30.9	736	10	US-09-978-192A-526
9	1223	30.9	736	10	US-09-999-832A-526
10	1223	30.9	736	11	US-09-978-189-526
11	1223	30.9	736	11	US-09-978-688A-526
12	1223	30.9	736	11	US-09-978-585A-526
13	1223	30.9	736	11	US-09-978-191A-526
14	1223	30.9	736	11	US-09-978-403A-526
15	1223	30.9	736	11	US-09-978-564A-526

16	1223	30.9	736	11	US-09-999-833A-526	Sequence 526, App
17	1223	30.9	736	11	US-09-981-915A-526	Sequence 526, App
18	1223	30.9	736	11	US-09-978-824-526	Sequence 526, App
19	1223	30.9	736	11	US-09-918-585A-526	Sequence 526, App
20	1223	30.9	736	11	US-09-978-423A-526	Sequence 526, App
21	1223	30.9	736	11	US-09-978-193A-526	Sequence 526, App
22	1223	30.9	736	11	US-09-999-830A-526	Sequence 526, App
23	1223	30.9	736	11	US-09-978-757A-526	Sequence 526, App
24	1223	30.9	736	11	US-09-978-187B-526	Sequence 526, App
25	1223	30.9	736	11	US-09-978-643A-526	Sequence 526, App
26	1223	30.9	736	12	US-09-978-375A-526	Sequence 526, App
27	1223	30.9	736	12	US-09-978-188A-526	Sequence 526, App
28	1223	30.9	736	12	US-09-978-298A-526	Sequence 526, App
29	1223	30.9	736	12	US-10-143-031A-526	Sequence 526, App
30	1223	30.9	736	12	US-10-002-967A-526	Sequence 526, App
31	1223	30.9	736	12	US-10-017-083A-526	Sequence 526, App
32	1223	30.9	736	12	US-10-143-030A-526	Sequence 526, App
33	1223	30.9	736	12	US-10-199-672-420	Sequence 420, App
34	1223	30.9	736	12	US-10-187-749-420	Sequence 420, App
35	1223	30.9	736	12	US-10-194-457-420	Sequence 420, App
36	1223	30.9	736	12	US-10-145-128A-526	Sequence 526, App
37	1223	30.9	736	12	US-10-184-642-420	Sequence 420, App
38	1223	30.9	736	12	US-10-196-747-420	Sequence 420, App
39	1223	30.9	736	12	US-10-173-689-420	Sequence 420, App
40	1223	30.9	736	12	US-10-173-690-420	Sequence 420, App
41	1223	30.9	736	12	US-10-173-691-420	Sequence 420, App
42	1223	30.9	736	12	US-10-173-692-420	Sequence 420, App
43	1223	30.9	736	12	US-10-173-694-420	Sequence 420, App
44	1223	30.9	736	12	US-10-173-698-420	Sequence 420, App
45	1223	30.9	736	12	US-10-173-699-420	Sequence 420, App

#### ALIGNMENTS

#### RESULT 1

US-10-147-928-6  
; Sequence 6, Application US/10147928  
; Publication No. US00030180877A1  
; GENERAL INFORMATION:  
; APPLICANT: SOLVAY PHARMACEUTICALS B.V.  
; TITLE OF INVENTION: NO. US20030180877A1el Human Enzymes of the Metalloprotease Famil  
; FILE REFERENCE: SPW 99.09 /H 99.26-WO  
; CURRENT APPLICATION NUMBER: US/10/147, 928  
; CURRENT FILING DATE: 2002-05-20  
; NUMBER OF SEQ ID NOS: 31  
; SOFTWARE: Patentin Ver. 2.1  
; SEQ ID NO 6  
; LENGTH: 753  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-147-928-6

Query Match 34.2%, Score 1352, DB 12, Length 753;  
Best Local Similarity 38.4%, Pred. No. 1e-117;  
Matches 293; Conservative 153; Mismatches 274; Indels 44; Gaps 18;  
  
QY 9 VETGKKANR-----GTRIALVVFVGTVLGTILFLVSGLLSLQAKQRYCLKPSGIE 61  
DB 11 VESAGRAGQKRPGLFEGGLLLLLVTAALVALCVLYADRRGIPAEQGEVCTTGCVI 70  
QY 62 AAAAILSKVNLSDVDPDNNFFRACDGNWISNNPIPEDMPSYGVYFWLRRHNDLKLKELLEK 121  
DB 71 AAAAILQNDPTTEPCDDFYQACGGWLRHRHVPETNSRYSIFDVLRLDELEVLKAVLEN 130  
QY 122 SISRRRTEALQKALILYSSCKMEKALEKADAKAPLLHLRHSFRWPLVLSNIGPEGVWS 181  
DB 131 STA--KDRPAVEKARTYRSCMNQSVIEKRGSGPLDLLL--EVVGGWMPVAMDR-----WN 181  
QY 182 ER----KFSLLQTLATFRGQYSNVSFIRLYVSPDKASNEHILKLDQATLSLAVREDYLDN 238  
DB 182 ETVGLEWELERQALAMNSQFNRRVLIDLFVNDQNSRRHIIVIDOPTLGMPSREYFYFNG 241



Db 137 SIFDVLRLDELEVLKAVLENSTA--KORPAVEKARTLYRSCMNQSVIEKRGSOPLDIL- 193  
QY 162 HSPFRMPVLESNIGPEGVWSE--KFSLLQTLATFRGQYNSVFIIRLYVSPDDKASNEH 218  
Db 194 EVVGGPAMDR-----WNETVGLWELELQALMNSQFNRRVLIDLFINDDQNSRH 247  
QY 219 ILKLDQATLSLAVREDYLDNSTEAKSYRDALYKFMVDYAVLL--GANSRR---AEHDMK 272  
Db 248 IYIDQPTLGPSPREYFNGGSRK-VREAYLOFMVSVATLLREDANLPDSCLVQEDMV 306  
QY 273 SVLRLEIKIAEMIPHENRTSE--AMYNKONISELAM--IPOFDWLGVIKKVIDTRLYPH 329  
Db 307 QVLELETQAKATVPOBERHDVIALYHRMGLBELOSQFGLKGFNTLFIQTVLSS----- 361  
QY 330 LK-DISPENNVVRVPOYFKDLFRILGSRKKTIANVLMVWVYSRIPLNSRRFOYRWLE 388  
Db 362 VKIKLLPDEEVVVGIPYLONLNENIIDTYSARTIQYLVWRLVLDRLGSLQRFKTRVN 421  
QY 399 FSRVIGQTTTLTLPQWDKCNFIESALPYVVGKMFVDVYFQEDKEMMEELVEGVWAFID 448  
Db 422 YRKALFGTMVEEVVRRECVCYVNSNMENAVGSLYVREAFPGDSKSMVRELIDKVRTVFE 481  
QY 449 MLEKENEMDAGTKRKAKEKARAVLAKVGYPEFIMNDTH--VNEDLKAIKFSADYFGNV 506  
Db 482 TLD-ELGWMDEESKKAQEKAMSIREQIGHDPDYLLEENRRDLDEEYNSNLFSEDLFENS 540  
QY 507 LQTRKYLAQSDFFWLKRAKVPKTEWFTNPTTVNAFYSASTNQIRFPAGELQKPPFFWGTEYP 566  
Db 541 LQNLKVGARSRLKREKVDPNLWIIGAAVNAFYSPNRNQIVFPAGILQPPFF-SKEQP 599  
QY 567 RSLSYGAIGVIVGHEFTGFDNNGRYDKGNLDPWVSTESBEKFKETKCMINQYNSYY 626  
Db 600 QALNFGGIGMVGHEITHGFDNNGRYDKGNLDPWVSTESBEKFKETKCMINQYNSYY 659  
QY 627 WKKAG-LNVKGRKTLGENTLADNGLEAFRAVRKWINDRRQGLEEPLLPGITFTNNOLFF 685  
Db 660 WDLADEQNNGFNTLGENIADNGVQYKAYLKW---AEGKDOQLPGLDLTHEQLFF 716  
QY 686 LSYAHRVCSNRPPEAREQVQIGAHSPQFRNGAISNSEEFQKAFNCPNSTMNRMGMS 745  
Db 717 INYAQWCGSYRPEFAIQSIKTDVHSPKLYRVLGSLQNLAAAFADTFHCARGTPMH-PKER 775  
QY 746 CRLW 749  
Db 776 CRWV 779

## RESULT 4

US-10-017-273A-6  
; Sequence 6, Application US/10017273A  
; Publication No. US20030119714A1  
; GENERAL INFORMATION:  
; APPLICANT: Pfizer Inc.  
; APPLICANT: Naylor, Alasdair M.  
; APPLICANT: Van Der Graaf, Pieter H  
; APPLICANT: Wayman, Christopher P.  
; TITLE OF INVENTION: Treatment of Male Sexual Dysfunction  
; FILE REFERENCE: PC22013  
; CURRENT APPLICATION NUMBER: US/10/017, 273A  
; CURRENT FILING DATE: 2001-12-12  
; PRIOR APPLICATION NUMBER: US 60/265,358  
; PRIOR FILING DATE: 2001-01-31  
; PRIOR APPLICATION NUMBER: GB 0030647.2  
; PRIOR FILING DATE: 2000-12-15  
; PRIOR APPLICATION NUMBER: GB 0108730.3  
; PRIOR FILING DATE: 2001-04-06  
; PRIOR APPLICATION NUMBER: GB 0120679.6  
; PRIOR FILING DATE: 2001-08-24  
; PRIOR APPLICATION NUMBER: US 09/905,846  
; PRIOR FILING DATE: 2001-07-13  
; PRIOR APPLICATION NUMBER: US 60/291,722  
; PRIOR FILING DATE: 2001-05-17  
; PRIOR APPLICATION NUMBER: US 09/895,367

; PRIOR FILING DATE: 2001-06-29  
; NUMBER OF SEQ ID NOS: 6  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 6  
; LENGTH: 779  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-017-273A-6

## Query Match 33.7%; Score 1332.5; DB 15; Length 779;

Best Local Similarity 39.2%; Pred. No. 7.4e-116;  
Matches 284; Conservative 145; Mismatches 258; Indels 37; Gaps 17;

QY 42 QGLSLQAKOEYCLKPECIEAARAILSKVNLSDVDPCNFRFACDGHISNNPDMPSY 101  
Db 77 RGIPEAGEVSEVCTTGCVCVIAAARIIONMDPTTEPCDDFYQACGMLRRHVIPETNSRY 136  
QY 102 GYVFWLRHNVHDKLLEKLEISRRRDEIAIKAKILYSSCMNEKAIEKADAKPLHLIR 161  
Db 137 SIFDVLRLDELEVLKAVLENSTA--KORPAVEKARTLYRSCMNQSVIEKRGSOPLDIL- 193  
QY 162 HSPFRMPVLESNIGPEGVWSE--KFSLLQTLATFRGQYNSVFIIRLYVSPDDKASNEH 218  
Db 194 EVVGGPAMDR-----WNETVGLWELELQALMNSQFNRRVLIDLFINDDQNSRH 247  
QY 219 ILKLDQATLSLAVREDYLDNSTEAKSYRDALYKFMVDYAVLL--GANSRR---AEHDMK 272  
Db 248 IYIDQPTLGPSPREYFNGGSRK-VREAYLOFMVSVATLLREDANLPDSCLVQEDMV 306  
QY 273 SVLRLEIKIAEMIPHENRTSE--AMYNKONISELAM--IPOFDWLGVIKKVIDTRLYPH 329  
Db 307 QVLELETQAKATVPOBERHDVIALYHRMGLBELOSQFGLKGFNTLFIQTVLSS----- 361  
QY 330 LK-DISPENNVVRVPOYFKDLFRILGSRKKTIANVLMVWVYSRIPLNSRRFOYRWLE 388  
Db 362 VKIKLLPDEEVVVGIPYLONLNENIIDTYSARTIQYLVWRLVLDRLGSLQRFKTRVN 421  
QY 399 FSRVIGQTTTLTLPQWDKCNFIESALPYVVGKMFVDVYFQEDKEMMEELVEGVWAFID 448  
Db 422 YRKALFGTMVEEVVRRECVCYVNSNMENAVGSLYVREAFPGDSKSMVRELIDKVRTVFE 481  
QY 449 MLEKENEMDAGTKRKAKEKARAVLAKVGYPEFIMNDTH--VNEDLKAIKFSADYFGNV 506  
Db 482 TLD-ELGWMDEESKKAQEKAMSIREQIGHDPDYLLEENRRDLDEEYNSNLFSEDLFENS 540  
QY 507 LQTRKYLAQSDFFWLKRAKVPKTEWFTNPTTVNAFYSASTNQIRFPAGELQKPPFFWGTEYP 566  
Db 541 LQNLKVGARSRLKREKVDPNLWIIGAAVNAFYSPNRNQIVFPAGILQPPFF-SKEQP 599  
QY 567 RSLSYGAIGVIVGHEFTGFDNNGRYDKGNLDPWVSTESBEKFKETKCMINQYNSYY 626  
Db 600 QALNFGGIGMVGHEITHGFDNNGRYDKGNLDPWVSTESBEKFKETKCMINQYNSYY 659  
QY 627 WKKAG-LNVKGRKTLGENTLADNGLEAFRAVRKWINDRRQGLEEPLLPGITFTNNOLFF 685  
Db 660 WDLADEQNNGFNTLGENIADNGVQYKAYLKW---AEGKDOQLPGLDLTHEQLFF 716  
QY 686 LSYAHRVCSNRPPEAREQVQIGAHSPQFRNGAISNSEEFQKAFNCPNSTMNRMGMS 745  
Db 717 INYAQWCGSYRPEFAIQSIKTDVHSPKLYRVLGSLQNLAAAFADTFHCARGTPMH-PKER 775  
QY 746 CRLW 749  
Db 776 CRWV 779

## RESULT 5

US-10-147-928-2  
; Sequence 2, Application US/10147928  
; Publication No. US20030180877A1  
; GENERAL INFORMATION:  
; APPLICANT: SOLVAY PHARMACEUTICALS B.V.  
; TITLE OF INVENTION: No. US20030180877A1el Human Enzymes of the Metalloprotease Family

RESULT 6  
US-978-295A-526  
; Sequence 526, Application US/09978295A  
; Patent No. US2002015606A1  
; GENERAL INFORMATION:  
; APPLICANT: Ashkenazi, Avi  
; APPLICANT: Baker Kevin P.  
; APPLICANT: Borstein, David  
; APPLICANT: Desnoyers, Luc

;; PRIOR FILING DATE: 1998-03-30  
;; PRIOR APPLICATION NUMBER: 60/079923  
;; PRIOR FILING DATE: 1998-03-30  
;; PRIOR APPLICATION NUMBER: 60/080105  
;; PRIOR FILING DATE: 1998-03-31  
;; PRIOR APPLICATION NUMBER: 60/080107  
;; PRIOR FILING DATE: 1998-03-31  
;; PRIOR APPLICATION NUMBER: 60/080165  
;; PRIOR FILING DATE: 1998-03-31  
;; PRIOR APPLICATION NUMBER: 60/080194  
;; PRIOR FILING DATE: 1998-03-31  
;; PRIOR APPLICATION NUMBER: 60/080327  
;; PRIOR FILING DATE: 1998-04-01  
;; PRIOR APPLICATION NUMBER: 60/080328  
;; PRIOR FILING DATE: 1998-04-01  
;; PRIOR APPLICATION NUMBER: 60/080333  
;; PRIOR FILING DATE: 1998-04-01  
;; PRIOR APPLICATION NUMBER: 60/080334  
;; PRIOR FILING DATE: 1998-04-01  
;; PRIOR APPLICATION NUMBER: 60/081070  
;; PRIOR FILING DATE: 1998-04-08  
;; PRIOR APPLICATION NUMBER: 60/081049  
;; PRIOR FILING DATE: 1998-04-08  
;; PRIOR APPLICATION NUMBER: 60/081071  
;; PRIOR FILING DATE: 1998-04-08  
;; PRIOR APPLICATION NUMBER: 60/081195  
;; PRIOR FILING DATE: 1998-04-08  
;; PRIOR APPLICATION NUMBER: 60/081203  
;; PRIOR FILING DATE: 1998-04-09  
;; PRIOR APPLICATION NUMBER: 60/081229  
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;; PRIOR APPLICATION NUMBER: 60/085704  
;; PRIOR FILING DATE: 1998-05-15  
;; PRIOR APPLICATION NUMBER: 60/085697

Query Match 30.9%; Score 1223; DB 10; Length 736;  
Best Local Similarity 35.2%; Pred. No. 1.3e-105;

Matches 267; Conservative 145; Mismatches 307; Indels 40; Gaps 18;

QY 2 EARTGSSV--ETGKANRGTRIAL-VFVGGTILVLTILF--LVSGQL-LSLQAKCEYCL 55  
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QY 56 KPECIEAAAILSKVNLSDPCDNFFRFACDGNISNNPIPEDMPSYGVYFWLHNVDLKL 115  
DB 67 TEACIRVAGKILESLEDRGVSPCEDFYQFSCGGWIRRNPLDGRSRWNTFNSLWDQQAAIL 126  
QY 116 KELLEKSISRRDTEAIOKAKILYSSCMNEKAIEKADAKPLHLHRLHSFPRWPVLESNIG 175  
DB 127 KHLLENT-TFNSSEAEQTKQFYLSCLQVERIEBELGAQPLRDLI-----EKIG 174  
QY 176 P---EGVWSEKPSLLQTLATFRGQVSNVFIILVYSPDDKASNEHILKLDQATLSLAVR 232  
DB 175 GWNITGFWDQDNF--MEVLKAVAGTYRATPFTVYISADSKSNSNVIQVQDSGLFLPSR 232  
QY 233 EDYLDNSTEAKSYRDALYKFMVDYAVLLGANSRAHDMKSVLRLEIKTAETMIPH-ENR 291  
DB 233 DYLL-NRTANEKVLTAYLDYMEELGMLGGRTSTREONQOQVLELEIOLANITVPODQR 291  
QY 292 TSEAMYNKMNISELSAMTFQFDWLGYIKKVIDTRLYPHLKDIPSPENVVVRVQVFKDLF 351



DB 292 DEEKYHKMSISELQALAPSDWLEFLSLLSP-----LELSDSEPVVYVGM DYLOQVS 345  
QY 352 RILGSEKKTIANLYVWRYVSRIPNLRRFYRWLBFSPVIQGT-TTLLPQWOKCVNFI 410  
DB 346 ELINTEPILNNYLWLVOKTSSLDLRRPESAOEKLLETLYGTAKSCVPRWOTCISNT 405  
QY 411 ESALPYVVGKMFVDVYFOEDKKEMMEELVEGVWVAFIDMLSEKENEMDAGTKRKAKEKAR 470  
DB 406 DDALGFALGSLFVKATFDRQSKEIAEGMISEITAFEEAL-GQLVWMDKTRQAAKEKAD 464  
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DB 465 AIYDMIGPDPFILEPEKLEDDVVDGVEISEDSFFQMLNLYNFSKVMADQLRKPPSRQW 524  
QY 531 FTNPTTVNAFYGASTNQIRFPFAGELQKPFPMGTETPRSLSYGAIGVIVGHFTGFDNNG 590  
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DB 584 REYDKNGNLRPWQWESLAARHNTACMEEQNYQ--QVNGERLNGRQTLGENTADNGL 641  
QY 651 REAFRAYRWINDRRQGLEEPLPGITFTNNQLFSLVAHVHCNSYRPEAAREQVQIGAH 710  
DB 642 KAAYNAYKAWL--RKHG-EEQQLPAVGLTNHQLFFVGFPAQVWCVSRTPESSHEGLVTDPH 698  
QY 711 SPQFRVNGAISNESEFQKAFNCPNNTNWRGMDSCRLW 749  
DB 699 SPARFVRLTSLNSRDLRHRFCPCVGPSPNPG-QICEVW 736

RESULT 7  
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; Sequence 526, Application US/09978697  
; Patent No. US20020169284A1  
; GENERAL INFORMATION:  
; APPLICANT: Ashkenazi, Avi  
; APPLICANT: Baker Kevin P.  
; APPLICANT: Botstein, David  
; APPLICANT: Desnoyers, Luc  
; APPLICANT: Eaton, Dan  
; APPLICANT: Ferrara, Napoleon  
; APPLICANT: Filvaroff, Ellen  
; APPLICANT: Fong, Sherman  
; APPLICANT: Gao, Wei-Qiang  
; APPLICANT: Gerber, Hanspeter  
; APPLICANT: Gottsen, Mary E.  
; APPLICANT: Goddard, Audrey  
; APPLICANT: Godowski, Paul J.  
; APPLICANT: Grimaldi, J. Christopher  
; APPLICANT: Gurney, Austin L.  
; APPLICANT: Hillan, Kenneth J.  
; APPLICANT: Kijavlin, Ivar J.  
; APPLICANT: Kuo, Sophia S.  
; APPLICANT: Napier, Mary A.  
; APPLICANT: Pan, James  
; APPLICANT: Peoni, Nicholas F.  
; APPLICANT: Roy, Margaret Ann  
; APPLICANT: Shelton, David L.  
; APPLICANT: Stewart, Timothy A.  
; APPLICANT: Tumas, Daniel  
; APPLICANT: Williams, P. Mickey  
; APPLICANT: Wood, William I.  
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
; FILE REFERENCE: P2630P1C27  
; CURRENT APPLICATION NUMBER: US/09/978,697  
; CURRENT FILING DATE: 2001-10-16  
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Db	67 TEACIRVAGKILBSLDRGVGPCSDFFQFSCGWRIRNPLPDGRSRNWTNSLWDQNAL 126					
QY	116 KELLEKISRRDRTEAIIQAKILYSSCMNEKATEKADAKPLHLRHSPFRWPVLESNIG 175					
Db	127 KHLLENT-TFNSSEAEQKQRFYLSQLOVERIEELGAOPLRDLI-----EKIG 174					
QY	176 P--EGWVSEKRSLLQTLATFFQGSYNSVFRLYVSPDOKASNEHILKLDQATLSLAVR 232					
Db	175 GWNITGPDQDNF--MEVLKAVAGTFRATPFTFYISADSKSNSNVIQVDSQGLFLPSR 232					
QY	233 BQYLDNSTEAKSYRDALYKFWMDTAVLLGANSRAEHDMSKVLRLBIKIAEIMIPH-ENR 291					
Db	233 DYLL-NRTANEKVLTAVLDYMEELGMLLGRPTSTREQMQQVLELEIQLANITVPQDQR 291					
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us-09-913-955a-1.rapb

RESULT 8  
US-09-978-192A-526  
Sequence 526, Application US/09978192A  
Patent No. US20020177553A1  
GENERAL INFORMATION:  
APPLICANT: Ashkenazi, Avi  
APPLICANT: Baker Kevin P.  
APPLICANT: Botstein, David  
APPLICANT: Desnoyers, Luc  
APPLICANT: Eaton, Dan  
APPLICANT: Ferrara, Napoleon  
APPLICANT: Filvaroff, Ellen  
APPLICANT: Fong, Sherman  
APPLICANT: Gao, Wei-Qiang  
APPLICANT: Gerber, Hanspeter  
APPLICANT: Grøttengen, Mary E.  
APPLICANT: Goddard, Audrey  
APPLICANT: Godowski, Paul J.  
APPLICANT: Grimaldi, J. Christopher  
APPLICANT: Gurney, Austin L.  
APPLICANT: Hillan, Kenneth J.  
APPLICANT: Kijavins, Ivar J.  
APPLICANT: Kuo, Sophia S.  
APPLICANT: Napier, Mary A.  
APPLICANT: Pan, James  
APPLICANT: Paoni, Nicholas F.  
APPLICANT: Roy, Margaret Ann  
APPLICANT: Shelton, David L.  
APPLICANT: Stewart, Timothy A.  
APPLICANT: Tumas, Daniel  
APPLICANT: Williams, P. Mickey  
APPLICANT: Wood, William I.  
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
Acids Encoding the Same  
FILE REFERENCE: P2630P1C9  
CURRENT APPLICATION NUMBER: US/09/978,192A  
CURRENT FILING DATE: 2001-10-15  
PRIOR APPLICATION NUMBER: 09/918595  
PRIOR FILING DATE: 2001-07-30  
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Query Match 30.9%; Score 1223; DB 10; Length 736;
Best Local Similarity 35.2%; Pred. No. 1.3e-105;
Matches 267; Conservative 145; Mismatches 307; Indels 40; Gaps 18;

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Db 7 ELGAGSNVGFQKTRQLLGSSTQLELVLAGSLALLLGLCLVALGVQYHRDPSSHSTCL 66
2y 56 KPECIEAAAILSKVNLSDPCDFFRACDGNISNNPIEDMPSYGVYFWLRLHNVDLK 115
Db 67 TEACIRVAGKILESLDROGVSPCEDFYQFCGWRFRNPLPDGRSRWNTFNSLWDQNAIL 126
2y 116 KELLEKSIRSRDTEATQAKILYSSCWNKEAIFKAOKALLHLHILHSPRPWPVLESNIG 175
Db 127 KHLLENT-TFNSSEAEQKTRQFLSCLQVERIBELGAQLRDLI-----EKIG 174

176 P---EGVWSEKESLLQTLATFPGQYNSVFIIRLVYVSPDDKASNEHILKLDQATLSLAVR 232
175 GWNITGFWODNF--MEVLKAVAGTYRATPFFTVYISADSKSSNSNVIQVQDSGLPSR 232
233 EDYLDNSTEAKSYRDALYKPMWDTAVLLGANSRABDMKSVLRLEIKIAEIMPH-ENR 291
233 DYYL-NRTANEKVLTAIYLDYMEELGLGGRPTSTREQMOQVLELEIQLANITVPDQRR 291
292 TSEAMYNKKNISSELSAMIQFDMWLYIKKVIDIRLYPHUKDISPENVVVRVQYFKDLF 351
292 DEEKIYHKMSISELQALAFSMDWLEFLSLSP-----LELSDSEPVVYVGYMDYQQVS 345
352 RILGSEKKTIANLYVMYYSRIPNLRRFQYRWLEFSRVIQGT-TLLPQWDKCVNF1 410
346 ELINRTEPSILANNYLWNLVQKTTSSLDRRFESAQBKLETLTYGKKSCVPRWQTCISNT 405
411 ESALPYVVGKMFYDVYFQEDKEMMEELVEGVWRWAPIDMLEKENEMWDAGTKRKAKEKAR 470
406 DDALGFALGSLFVKATFDQSKKEIAEGMISEIRTAFAEAL-GOLVWMDKTRQAARAKAD 464
471 AVLAKVGYPEFIMNDTHVNEEDLKAIFSEADYFNGVLOTQRKYLAQSDFFWLKRAVPKTEW 530
465 AIYDMIGFPDFILEPKELDDVYDGYEISEDSFPQNMNLNLYNFSKAKVMAQDLRKPPSRDQW 524
531 FTNPTTVNAPYSASTNQIRPAGELQKPFQWTEYPRSLSYGAIGVIVGHEFTHGFDNNG 590
525 SMTPTQTVNAYYLPKNEIVFPAGILOAPFY-ARNHPKALNFGGIVGVMGHELTHAFDDQG 583
591 RKYDKNGNDPMMWSESEBKEKTKCMINQVSNYYKXAGLVNKGKRTLGENIADNGGL 650
584 REYDKEGNLRPMWQNESLAARHNHTACMBEQINQY--QVNGERLNGRQTLGENITDNGGL 641
651 REAFRAYRKWINDRROGLEPELPLGITFTNNQLFFLSYAHVRCSYRPSAAREQVOIGAH 710
642 KAAYNAYKAWL--RKHG-BEQQLPAVLGNHQLFFVFGFAQVWCSVRTPESSHEGLVTDPH 698
711 SPQPRVNGAISNSEEFKAFENCPNNTWNRGMDSCRLW 749
699 SPARFVLTLSNRDPLRHFHFGCPVSPMNPQ-OLCEVW 736

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; Publication No. US20020192706A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Baker Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara Napoleon
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth J
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Kuo, Sophia S.
; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Shelton, David L.
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.

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Wed Dec 3 12:12:01 2003

TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic

FILE OF INVENTION: Acids Encoding the Same

FILE REFERENCE: P26301C63

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65 PRIOR APPLICATION NUMBER: 60/085697

Query Match 30.9%; Score 1223; DB 11; Length 736;

Best Local Similarity 35.2%; Pred. No. 1.3e-105;

Matches 267; Conservative 145; Mismatches 307; Indels 40; Gaps 18;

QY 2 BAETGSSV--ETGKKANRGTRIAL-VFVGGTFLVLTILF--LVSQGL-LSLQAKQKEYCL 55

DB 7 ELGAGSNVGFQKGTFRQLGSRTOLELVLAGASLLALLGLCLVALGVQYHRDPHSITCL 66



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QY 116 KELLEKSISRRDTEARQAKILYSSCMNEKAIEKADAKPLHLHLRHSPPFRWPVLESNIG 175
Db 127 KHLLENT-TFNSSEAEQRTORFYLSCLOVERIEELGAQPLRDLI-----EKIG 174
QY 176 P---EGWSEKRSFLLQTLATFRGOYSNVFIRLYVSPDDKASNEHILKLDQATLSLAVR 232
Db 175 GWNITGPWQDNF--MEVLKAVAGTYRATPFTVYISADSKSSNNVIOVDQSGFLPSR 232
QY 233 EDYLDNSTEAKSYRDALYKFMVDYAVLLGANSRAEHDMKSVLRLEIKIAEMIPH-ENR 291
Db 233 DYVL-NRTANEKVLTAIYDYMEEGLGRTSTREQMQQVLELEIQLANITVPODQR 291
QY 292 TSEAMYNKMNISELSAMIPOFDMWLGVIKVIIDTRYLPHLKDISPSENVVVRVQFKDLF 351
Db 292 DEEKIYHKMSISELQALAPSMOWLEFLSLLSP-----LELSDSEPVVYVGM DYLOQVS 345
QY 352 RILGSEKKTIANIYLVWRMVSRIENLSRRFQYRWLEFSRVIOGT-TLLPQWDKCVNFI 410
Db 346 ELINRTEPSILNNYLIWNLVQKTTSSLDRRFESAEKLELTYGTKSCVPRWQTCISNT 405
QY 411 ESALPYVVGKMFVDYVFOEDKKEWMEELVEGVWAFIDMLEKENEMWADAGTKRKAKEAR 470
Db 406 DDALGFAIGSLFVKATFDQSKSEIAGMISEITAFEEAL-GQLVWMDKTRQAARAKAD 464
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Db 465 AIYDMIGPDPFILEPKELDDVYDGEISEDSFQWMLNLYNFSKVMADQLRKPPSRDQW 524
QY 531 FNTPTVNAFYASNTQIRFPAGELQKPFPGWTEYPRSLSYGAIGVIVGHEFTHGFDNNG 590
Db 525 SMTPTQVNAVYLPTRKNEIVFPAGILQAPFY-ARNHPKALNFGGIGVVMGHELTAFDDQ 583
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; Publication No. US20030045462A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Baker Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnovers, Luc
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara, Napoleon
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth J.
; APPLICANT: Kijavina, Ivar J.
; APPLICANT: Kuo, Sophia S.
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; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James.
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Shelton, David L.
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE OF INVENTION: Acts Encoding the Same
; FILE REFERENCE: P2630P1C22
; CURRENT APPLICATION NUMBER: US/09/978.608A
; PRIORITY FILING DATE: 2001-10-16
; NUMBER OF SEQ ID NOS: 624
; Prior Application removed - See File Wrapper or Palm
; SEQ ID NO 526
; LENGTH: 736
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-09-978-608A-526

Query Match 30.9%; Score 1223; DB 11; Length 736;
Best Local Similarity 35.2%; Pred.No.1.3e-105;
Matches 267; Conservative 145; Mismatches 307; Indels 40; Gaps 18;

QY 2 EAETGSSV--ETGKKANRGTRIAL-VVVGTTLVLTILF--LVSOGL-LSLOAKQEYCL 55
Db 7 ELGAGSNVQKGTQRLQGLGRTQLELVLAGASLLALLGCLVALGVQYHRDPSHSTCL 66
QY 56 KPECIEAAAAILSKVNLSDPCNFRFACDGMISNNPIPEDMPSYGVYVWLRHNVDLKL 115
Db 67 TEACIRVAGKILLESIDRGVSPCEDYQFSCGWIIRNPLDGRSRWNTFNSLWDQONAIL 126
QY 116 KELLEKSISRRDTEARQAKILYSSCMNEKAIEKADAKPLHLHLRHSPPFRWPVLESNIG 175
Db 127 KHLLENT-TFNSSEAEQRTORFYLSCLOVERIEELGAQPLRDLI-----EKIG 174
QY 176 P---EGWSEKRSFLLQTLATFRGOYSNVFIRLYVSPDDKASNEHILKLDQATLSLAVR 232
Db 175 GWNITGPWQDNF--MEVLKAVAGTYRATPFTVYISADSKSSNNVIOVDQSGFLPSR 232
QY 233 EDYLDNSTEAKSYRDALYKFMVDYAVLLGANSRAEHDMKSVLRLEIKIAEMIPH-ENR 291
Db 233 DYVL-NRTANEKVLTAIYDYMEEGLGRTSTREQMQQVLELEIQLANITVPODQR 291
QY 292 TSEAMYNKMNISELSAMIPOFDMWLGVIKVIIDTRYLPHLKDISPSENVVVRVQFKDLF 351
Db 292 DEEKIYHKMSISELQALAPSMOWLEFLSLLSP-----LELSDSEPVVYVGM DYLOQVS 345
QY 352 RILGSEKKTIANIYLVWRMVSRIENLSRRFQYRWLEFSRVIOGT-TLLPQWDKCVNFI 410
Db 346 ELINRTEPSILNNYLIWNLVQKTTSSLDRRFESAEKLELTYGTKSCVPRWQTCISNT 405
QY 411 ESALPYVVGKMFVDYVFOEDKKEWMEELVEGVWAFIDMLEKENEMWADAGTKRKAKEAR 470
Db 406 DDALGFAIGSLFVKATFDQSKSEIAGMISEITAFEEAL-GQLVWMDKTRQAARAKAD 464
QY 471 AVLAKEVYPEFTIMNDTHVNEEDLKAIFSEADYFGNVLTQRYKLAQSDFFWLRKAVPKTEW 530
Db 465 AIYDMIGPDPFILEPKELDDVYDGEISEDSFQWMLNLYNFSKVMADQLRKPPSRDQW 524
QY 531 FNTPTVNAFYASNTQIRFPAGELQKPFPGWTEYPRSLSYGAIGVIVGHEFTHGFDNNG 590
Db 525 SMTPTQVNAVYLPTRKNEIVFPAGILQAPFY-ARNHPKALNFGGIGVVMGHELTAFDDQ 583
QY 591 RYKDNKGNLDPMWSTESBEKFEKTKCMINQYSNVYWKAGLVNKGKTLGENTADNGL 650
Db 584 REYDEKGNLRPWNQESLAARFNHTACMEEQNYQ--QVNGERLNGRQTLGENTADNGL 641
QY 651 REAFRAYRWINDRRQGLEEPLPGITFTNNQLFSLYAHVRCNSYRPEAAEQVIGAH 710
Db 642 KAAYNAYKAWL--RKHG-EEQQLPAVLGTLNHLQFFVGFQAQVWCSVRTPESSHEGLVTDPH 698
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Db 233 DYVL-NRTANEKVLTAJLDYMEELGMLGRPTSTREOMQQVLEBIQLANITVPODQR 291  
Qy 292 TSEAMYNKMIISLSAMIQFQWLKGIKVIDTRLYPHLKDIPSPENVVYVYQYFKDLF 351  
Db 292 DEEKIYHKSISLQALAPMDWLEFLSLSP-----LELSDSPVVYGYNDYLOQVS 345  
Qy 352 RILGSRKTKTIANYLVMVYSRIPNLSSRRFQYRWLEFSRVIQGT-TTLTPQWDKCVNFI 410  
Db 346 ELINRTEPSILNNYLWLVQKTTSSLDRRFESAQBKLLETLYGTTKKSCVPRWQTCSINT 405  
Qy 411 ESALPYVVGOMFVDVYFQEDKXEMMELVEGVWAPIDMLEKENENWMDAGTKKAKKAR 470  
Db 406 DDALGFALGSLFYKATFDROSKEIAEGMISEIRTAPEEAL-GOLVWMDKTRAKKAKAD 464  
Qy 471 AVLAKGYPEFIMNDTHVNEDLKAIRFSEADYFGNVLTQTKYLAQSDFFWLRKAVPKTEW 530  
Db 465 AIYDMIGPDPFLEPKRELDVYDYEISEDSFFQNNMLNLYNFSKVMADQLRPPSRDQW 524  
Qy 531 FTNPTTVNAYFASSTQIRPPAGELQKPPFWGTEYPRSLSYGAIGVIVGHEFTHGDNNG 590  
Db 525 SMTPTQTVNAYLFTQNEIVFPAGILQAPFY-ARNHPKALNFGGIVVVMGHELTTHAPDQ 583  
Qy 591 RYDXNGNLDPMWSTSEEEKFKTKCMINQYNYWKKAGLVKVKRTLGENDIADKGL 650  
Db 584 REYDKENGLRPMWQNESLAARNTACMBEQYQY--QYNGERLNGRQTLGENTDNGGL 641  
Qy 651 REAFRAYRWINDRRQGLEPPLPGITFTTNQNLFFLSYAHVRCNSYRPEAREQVQIGAH 710  
Db 642 KAAYNAYKAWL--RKHG-EEQQLPAVGLTTHQLFFVFGAQVWCSVRTPESSHEGLVTDPH 698  
Qy 711 SPQFRVNGAISNSEBFQKAFNCPNPNSTNMRGMDSCRLW 749  
Db 699 SPARFVLGTLSNRDLRHFHFGPVGSPMNPQ-QLCEVW 736

RESULT 13

US-09-978-191A-526  
; Sequence 526, Application US/09978191A  
; Publication No US20030050239A1

GENERAL INFORMATION:

; APPLICANT: Ashkenazi, Avi  
; APPLICANT: Baker Kevin P.  
; APPLICANT: Botstein, David  
; APPLICANT: Desnoyers, Luc  
; APPLICANT: Eaton, Dan  
; APPLICANT: Ferrara, Napoleon  
; APPLICANT: Filvaroff, Ellen  
; APPLICANT: Fong, Sherman  
; APPLICANT: Gao, Wei-Qiang  
; APPLICANT: Gerber, Hanspeter  
; APPLICANT: Gerritsen, Mary E.  
; APPLICANT: Goddard, Audrey  
; APPLICANT: Godowski, Paul J.  
; APPLICANT: Grimaldi, J. Christopher  
; APPLICANT: Gurney, Austin L.  
; APPLICANT: Hillan, Kenneth J.  
; APPLICANT: Kljavin, Ivar J.  
; APPLICANT: Kuo, Sophia S.  
; APPLICANT: Napier, Mary A.  
; APPLICANT: Pan, James  
; APPLICANT: Paoni, Nicholas F.  
; APPLICANT: Roy, Margaret Ann  
; APPLICANT: Shelton, David L.  
; APPLICANT: Stewart, Timothy A.  
; APPLICANT: Tumas, Daniel  
; APPLICANT: Williams, P. Mickey  
; APPLICANT: Wood, William I.  
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
; TITLE OF INVENTION: Acids Encoding the Same  
; FILE REFERENCE: P2630PIC15  
; CURRENT APPLICATION NUMBER: US/09/978,191A  
; CURRENT FILING DATE: 2001-10-15  
; PRIOR APPLICATION NUMBER: 09/918585

Qy 711 SPQFRVNGAISNSEBFQKAFNCPNPNSTNMRGMDSCRLW 749  
Db 699 SPARFVLGTLSNRDLRHFHFGPVGSPMNPQ-QLCEVW 736

RESULT 12

US-09-978-585A-526  
; Sequence 526, Application US/09978585A  
; Publication No. US20030049633A1

GENERAL INFORMATION:

; APPLICANT: Ashkenazi, Avi  
; APPLICANT: Baker Kevin P.  
; APPLICANT: Botstein, David  
; APPLICANT: Desnoyers, Luc  
; APPLICANT: Eaton, Dan  
; APPLICANT: Ferrara, Napoleon  
; APPLICANT: Filvaroff, Ellen  
; APPLICANT: Fong, Sherman  
; APPLICANT: Gao, Wei-Qiang  
; APPLICANT: Gerber, Hanspeter  
; APPLICANT: Gerritsen, Mary E.  
; APPLICANT: Goddard, Audrey  
; APPLICANT: Godowski, Paul J.  
; APPLICANT: Grimaldi, J. Christopher  
; APPLICANT: Gurney, Austin L.  
; APPLICANT: Hillan, Kenneth J.  
; APPLICANT: Kljavin, Ivar J.  
; APPLICANT: Kuo, Sophia S.  
; APPLICANT: Napier, Mary A.  
; APPLICANT: Pan, James  
; APPLICANT: Paoni, Nicholas F.  
; APPLICANT: Roy, Margaret Ann  
; APPLICANT: Shelton, David L.  
; APPLICANT: Stewart, Timothy A.  
; APPLICANT: Tumas, Daniel  
; APPLICANT: Williams, P. Mickey  
; APPLICANT: Wood, William I.  
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
; TITLE OF INVENTION: Acids Encoding the Same  
; FILE REFERENCE: P2630PIC15  
; CURRENT APPLICATION NUMBER: US/09/978,585A  
; CURRENT FILING DATE: 2001-10-16  
; NUMBER OF SEQ ID NOS: 624  
; Prior Application removed - See File Wrapper or Palm  
; SEQ ID NO 526  
; LENGTH: 736  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-978-585A-526

Query Match 30.9%; Score 1223; DB 11; Length 736;

Best Local Similarity 35.2%; Pred.No. 1.3e-105;  
Matches 267; Conservative 145; Mismatches 307; Indels 40; Gaps 18;

Qy 2 EARTGSSV--ETGKKANRGTIAL-VVYVGGTLVLGTILF--LVSQGL-LSLQAKQEVCL 55  
Db 7 ELGAGSNVGFQXGTGRTQLLGSRTQLEVLVLAGASLLAALLGLVALGVQYHRDPSHSTCL 66  
Qy 56 KECIEAAAILSKVNLSDPCNFRFACDGIWNNIPEDWPSYGVYVPLRHNVDLKL 115  
Db 67 TEACIRVAGKILSDRGVSPCEDFYQFCGGWRNRNPLDGRSRWNTNSLWDQONQAIL 126  
Qy 116 KELLEKSISRRDTEAIOKAKILYSSCMNEKAEKADAKPLHLRHSPFRWPVLESNIG 175  
Db 127 KHLLENT-IFNSSSEAEQRTQRYLSCLQVERIEELGAQPLRDLI-----EKIG 174  
Qy 176 P---EGVWSEKESLLOTLATFGQYSNVFELYVSPDKASNEHLKLDQATLSLAVR 232  
Db 175 GWNITGFWDDNF--MEVLKAVAGTTRATPFTFTVLSADKSGNSNVIOVDQSGFLPSR 232  
Qy 233 EDYLDNSTEAKSYRDALYKFMVDVTAVLLGANSRAEHDMKSVLRLEIKIAEIMIPH-ENR 291



699 SPARFVGLTILNSRSDFLRHFGCPVGSPPNPG-QLCCEVM 73

Db

RESULT 14

US-09-978-403A-526

Sequence 526, Application US/09978403A

Publication No. US20030050240A1

GENERAL INFORMATION:

APPLICANT: Aenkenazi, Avi

APPLICANT: Baker Kevin P.

APPLICANT: Botstein, David

APPLICANT: Desnoyers, Luc

APPLICANT: Eaton, Dan

APPLICANT: Ferrara, Napoleon

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APPLICANT: Pan, James

APPLICANT: Paoni, Nicholas F.

APPLICANT: Roy, Margaret Ann

APPLICANT: Shelton, David L.

APPLICANT: Stewart, Timothy A.

APPLICANT: Tumas, Daniel

APPLICANT: Williams, P. Mickey

APPLICANT: Wood, William I.

TITLE OF INVENTION: Secreted and Transmembrane Polypeptides

TITLE OF INVENTION: Acids Encoding the Same

FILE REFERENCE: P2630PIC17

CURRENT APPLICATION NUMBER: US/09/978,403A

CURRENT FILING DATE: 2002-03-19

PRIOR APPLICATION NUMBER: 09/918585

PRIOR FILING DATE: 2001-07-30

PRIOR APPLICATION NUMBER: 60/062250

PRIOR FILING DATE: 1997-10-17

PRIOR APPLICATION NUMBER: 60/064249

PRIOR FILING DATE: 1997-11-03

PRIOR APPLICATION NUMBER: 60/065311

PRIOR FILING DATE: 1997-11-13

PRIOR APPLICATION NUMBER: 60/066364

PRIOR FILING DATE: 1997-11-21

PRIOR APPLICATION NUMBER: 60/077450

PRIOR FILING DATE: 1998-03-10

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PRIOR APPLICATION NUMBER: 60/078886

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PRIOR APPLICATION NUMBER: 60/078936

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 ; PRIOR FILING DATE: 1998-05-15  
 ; PRIOR APPLICATION NUMBER: 60/085573  
 ; PRIOR FILING DATE: 1998-05-15  
 ; PRIOR APPLICATION NUMBER: 60/085704  
 ; PRIOR FILING DATE: 1998-05-15  
 ; PRIOR APPLICATION NUMBER: 60/085697

Query Match 30.9%; Score 1223; DB 11; Length 736;

Best Local Similarity 35.2%; Pred. No. 1.3e-105;

Matches 267; Conservative 145; Mismatches 307; Indels 40; Gaps 18;

Qy 2 BAETGSSV--ETGKANRGTRIAL-VVFGTTLVLTILF--LVSOGL-LSLQAKQEYCL 55  
 Db 7 ELGAGSNVGFQKGRQLLGSRTQLVLGASLLAALLGLCLVALGVQYHRDPSHSTCL 66  
 Qy 56 KPECIEAAAAIILSKVNLSDPCDNFFRACDWTNNPIEDMPSYGVYPWLRHNVDLK 115  
 Db 67 TEACIRVAGKILSLDRGVSPCEDFYQFCGGMIRRNPLPDGSRWNTNLSLWDQNAI 126  
 Qy 116 KELLEKISRRRDETEALQKAKILYSSCMNEKATEKADAKPLHLRHSPPFRWPVLESNIG 175

Db 127 KHLLENT-TFNSSEAEQTKQFYLSQLOVERIEBGAQPLRDLI-----EKIG 174  
Qy 176 P---EGWSEKESLQTLATFRGOYSNVFIRLYVSPDKASNEHILKLDQATLSLAVR 232  
Db 175 GWNITGPWODNF--NEVLKAVAGTYRATPFPTFYI:SADSKSSNSNVIQVQDQGLFLPSR 232  
Qy 233 EDYLDNSTAKSYRDALYKPMVDATVLLGANSRAEHDMKSVLRLEIKIAETMIPH-ENR 291  
Db 233 DYVL-NRTANEKVLTAIYDMEELGMLLGGRPSTSTREOMQOVLLEBIQANITVPODQR 291  
Qy 292 TSEAMYNXNISELSAMIPDFDMLGVKIKVIDTRLYPHLKDIDSPSNVVRVPQFKDUF 351  
Db 292 DEKIYHKWISISLQALAFMSDWLEFLSLSP-----LELSDSEPVVYVGVNDYLLQVYS 345  
Qy 352 RILGSEKKTIANLYVWRVYSEIPNLRRFQYRWLEFSRVIOGT-TTLLPQWDKCVNFI 410  
Db 346 ELINRTEPSILNLYLWNLVQKTTSSLDRRFESAQBKLETLVGTKKSCVPRMOTCISNT 405  
Qy 411 ESALPYVVGKMFVDVYFQEDDKKEMMEELVGVWFAFIDMLEKENEMWDAGTKRKAKERAR 470  
Db 406 DDALGFALGSLFYKATFDROSKEIAEGMISEIRTAEEAL--GQLVNMDEKTRQAAKEKAD 464  
Qy 471 AVLAKVGYEPIFNWDTHVNEIDLKAIKFESEADYFGNVLQTRKYLAQSDFFWLKRAVPTBW 530  
Db 465 AIYDMIGFDFIPEKLEDDVYDGYEISEDSFFQNNMLNLYNSAKYNADQLRKPPSRDQM 524  
Qy 531 FTNPTTNAFYSASTNQIRPAGELQKPFPGWTEYPRSLSYGAIGVIVGHEFTGHDNNG 590  
Db 525 SMTPOITVNAVLYTKNEIVPEAGILQAPFY-ARNHPKALNFGGIVGVMGHELTHAFDDQG 583  
Qy 591 RYDXKGNLDPWVSTSESEKFKSKTKCMINQYNYWKAGLVNKKRITLGENIADNGGL 650  
Db 584 REYDKGNLPRWQNSLAAFRNHTACMEEQYNY--QVNGERLNGRQTLGENITDNGGL 541  
Qy 651 REAFRAYKVINDRQGLPEPLPGTITFTNNQLFSLYAHVRCNSYRPEAAREQVQIGAH 710  
Db 642 KAAYNAYKAWL--RKHG-EQOQLPAVLGTHQILFFVFGAQVCSVTPSPSSHEGLVTDPH 698  
Qy 711 SPQFRVNGAISNEEFQKAFNCPNPNSTMMRGVDSRLW 749  
Db 699 SPARFVLGTLNSRDLRHFEGCPVSPMNPQ-QLCEVW 736

## RESULT 15

US-09-978-564A-526  
; Sequence 526, Application US/09978564A  
; Publication No. US20030050241A1

; GENERAL INFORMATION:  
; APPLICANT: Ashkenazi, Avi

; APPLICANT: Baker, Kevin P.

; APPLICANT: Botstein, David

; APPLICANT: Desnoyers, Luc

; APPLICANT: Eaton, Dan

; APPLICANT: Ferrara, Napoleon

; APPLICANT: Filvaroff, Ellen

; APPLICANT: Fong, Sherman

; APPLICANT: Gao, Wei-Qiang

; APPLICANT: Gerber, Hanspeter

; APPLICANT: Gottard, Audrey

; APPLICANT: Godowski, Paul J.

; APPLICANT: Grimaldi, J. Christopher

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; APPLICANT: Hillan, Kenneth J.

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; APPLICANT: Paoni, Nicholas F.

; APPLICANT: Roy, Margaret Ann

; APPLICANT: Shelton, David L.

; APPLICANT: Stewart, Timothy A.

; APPLICANT: Tamas, Daniel  
; APPLICANT: Williams, P. Mickey  
; APPLICANT: Wood, William I.  
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
; FILE REFERENCE: P2630P1C25  
; CURRENT APPLICATION NUMBER: US/09/978,564A  
; CURRENT FILING DATE: 2001-10-16  
; PRIOR APPLICATION NUMBER: 09/918585  
; PRIOR FILING DATE: 2001-07-30  
; PRIOR APPLICATION NUMBER: 60/062250  
; PRIOR FILING DATE: 1997-10-17  
; PRIOR APPLICATION NUMBER: 60/064249  
; PRIOR FILING DATE: 1997-11-03  
; PRIOR APPLICATION NUMBER: 60/065311  
; PRIOR FILING DATE: 1997-11-13  
; PRIOR APPLICATION NUMBER: 60/066364  
; PRIOR FILING DATE: 1997-11-21  
; PRIOR APPLICATION NUMBER: 60/077450  
; PRIOR FILING DATE: 1998-03-10  
; PRIOR APPLICATION NUMBER: 60/077632  
; PRIOR FILING DATE: 1998-03-11  
; PRIOR APPLICATION NUMBER: 60/077641  
; PRIOR FILING DATE: 1998-03-11  
; PRIOR APPLICATION NUMBER: 60/077649  
; PRIOR FILING DATE: 1998-03-11  
; PRIOR APPLICATION NUMBER: 60/077791  
; PRIOR FILING DATE: 1998-03-12  
; PRIOR APPLICATION NUMBER: 60/078004  
; PRIOR FILING DATE: 1998-03-13  
; PRIOR APPLICATION NUMBER: 60/078886  
; PRIOR FILING DATE: 1998-03-20  
; PRIOR APPLICATION NUMBER: 60/078936  
; PRIOR FILING DATE: 1998-03-20  
; PRIOR APPLICATION NUMBER: 60/078910  
; PRIOR FILING DATE: 1998-03-20  
; PRIOR APPLICATION NUMBER: 60/078939  
; PRIOR FILING DATE: 1998-03-20  
; PRIOR APPLICATION NUMBER: 60/079294  
; PRIOR FILING DATE: 1998-03-25  
; PRIOR APPLICATION NUMBER: 60/079656  
; PRIOR FILING DATE: 1998-03-26  
; PRIOR APPLICATION NUMBER: 60/079664  
; PRIOR FILING DATE: 1998-03-27  
; PRIOR APPLICATION NUMBER: 60/079689  
; PRIOR FILING DATE: 1998-03-27  
; PRIOR APPLICATION NUMBER: 60/079663  
; PRIOR FILING DATE: 1998-03-27  
; PRIOR APPLICATION NUMBER: 60/079728  
; PRIOR FILING DATE: 1998-03-27  
; PRIOR APPLICATION NUMBER: 60/079786  
; PRIOR FILING DATE: 1998-03-27  
; PRIOR APPLICATION NUMBER: 60/079920  
; PRIOR FILING DATE: 1998-03-30  
; PRIOR APPLICATION NUMBER: 60/079923  
; PRIOR FILING DATE: 1998-03-30  
; PRIOR APPLICATION NUMBER: 60/080105  
; PRIOR FILING DATE: 1998-03-31  
; PRIOR APPLICATION NUMBER: 60/080107  
; PRIOR FILING DATE: 1998-03-31  
; PRIOR APPLICATION NUMBER: 60/080165  
; PRIOR FILING DATE: 1998-03-31  
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; PRIOR FILING DATE: 1998-03-31  
; PRIOR APPLICATION NUMBER: 60/080327  
; PRIOR FILING DATE: 1998-04-01  
; PRIOR APPLICATION NUMBER: 60/080328  
; PRIOR FILING DATE: 1998-04-01  
; PRIOR APPLICATION NUMBER: 60/080333  
; PRIOR FILING DATE: 1998-04-01  
; PRIOR APPLICATION NUMBER: 60/080334  
; PRIOR FILING DATE: 1998-04-01  
; PRIOR APPLICATION NUMBER: 60/081070

; PRIOR FILING DATE: 1998-04-08  
 ; PRIOR APPLICATION NUMBER: 60/081049  
 ; PRIOR FILING DATE: 1998-04-08  
 ; PRIOR APPLICATION NUMBER: 60/081071  
 ; PRIOR FILING DATE: 1998-04-08  
 ; PRIOR APPLICATION NUMBER: 60/081195  
 ; PRIOR FILING DATE: 1998-04-08  
 ; PRIOR APPLICATION NUMBER: 60/081203  
 ; PRIOR FILING DATE: 1998-04-09  
 ; PRIOR APPLICATION NUMBER: 60/081229  
 ; PRIOR FILING DATE: 1998-04-09  
 ; PRIOR APPLICATION NUMBER: 60/081955  
 ; PRIOR FILING DATE: 1998-04-15  
 ; PRIOR APPLICATION NUMBER: 60/081817  
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 ; PRIOR APPLICATION NUMBER: 60/081819  
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 ; PRIOR APPLICATION NUMBER: 60/081952  
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 ; PRIOR APPLICATION NUMBER: 60/082568  
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 ; PRIOR FILING DATE: 1998-04-21  
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 ; PRIOR FILING DATE: 1998-04-22  
 ; PRIOR APPLICATION NUMBER: 60/082804  
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 ; PRIOR APPLICATION NUMBER: 60/082700  
 ; PRIOR FILING DATE: 1998-04-22  
 ; PRIOR APPLICATION NUMBER: 60/082797  
 ; PRIOR FILING DATE: 1998-04-22  
 ; PRIOR APPLICATION NUMBER: 60/082796  
 ; PRIOR FILING DATE: 1998-04-23  
 ; PRIOR APPLICATION NUMBER: 60/083336  
 ; PRIOR FILING DATE: 1998-04-27  
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 ; PRIOR APPLICATION NUMBER: 60/083392  
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 ; PRIOR FILING DATE: 1998-04-29  
 ; PRIOR APPLICATION NUMBER: 60/083559  
 ; PRIOR FILING DATE: 1998-04-29  
 ; PRIOR APPLICATION NUMBER: 60/083500  
 ; PRIOR FILING DATE: 1998-04-29  
 ; PRIOR APPLICATION NUMBER: 60/083742  
 ; PRIOR FILING DATE: 1998-04-30  
 ; PRIOR APPLICATION NUMBER: 60/084366  
 ; PRIOR FILING DATE: 1998-05-05  
 ; PRIOR APPLICATION NUMBER: 60/084414  
 ; PRIOR FILING DATE: 1998-05-06  
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 ; PRIOR FILING DATE: 1998-05-06  
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 ; PRIOR FILING DATE: 1998-05-07  
 ; PRIOR APPLICATION NUMBER: 60/084639  
 ; PRIOR FILING DATE: 1998-05-07  
 ; PRIOR APPLICATION NUMBER: 60/084640  
 ; PRIOR FILING DATE: 1998-05-07  
 ; PRIOR APPLICATION NUMBER: 60/084598  
 ; PRIOR FILING DATE: 1998-05-07

; PRIOR APPLICATION NUMBER: 60/084600  
 ; PRIOR FILING DATE: 1998-05-07  
 ; PRIOR APPLICATION NUMBER: 60/084627  
 ; PRIOR FILING DATE: 1998-05-07  
 ; PRIOR APPLICATION NUMBER: 60/084643  
 ; PRIOR FILING DATE: 1998-05-07  
 ; PRIOR APPLICATION NUMBER: 60/085339  
 ; PRIOR FILING DATE: 1998-05-13  
 ; PRIOR APPLICATION NUMBER: 60/085338  
 ; PRIOR FILING DATE: 1998-05-13  
 ; PRIOR APPLICATION NUMBER: 60/085323  
 ; PRIOR FILING DATE: 1998-05-13  
 ; PRIOR APPLICATION NUMBER: 60/085582  
 ; PRIOR FILING DATE: 1998-05-15  
 ; PRIOR APPLICATION NUMBER: 60/085700  
 ; PRIOR FILING DATE: 1998-05-15  
 ; PRIOR APPLICATION NUMBER: 60/085689  
 ; PRIOR FILING DATE: 1998-05-15  
 ; PRIOR APPLICATION NUMBER: 60/085579  
 ; PRIOR FILING DATE: 1998-05-15  
 ; PRIOR APPLICATION NUMBER: 60/085580  
 ; PRIOR FILING DATE: 1998-05-15  
 ; PRIOR APPLICATION NUMBER: 60/085573  
 ; PRIOR FILING DATE: 1998-05-15  
 ; PRIOR APPLICATION NUMBER: 60/085704  
 ; PRIOR FILING DATE: 1998-05-15  
 ; PRIOR APPLICATION NUMBER: 60/085697

Query Match 30.9%; Score 1223; DB 11; Length 736;  
 Best Local Similarity 35.2%; Pred. No. 1.3e-105;  
 Matches 267; Conservative 145; Mismatches 307; Indels 40; Gaps 18;

QY	2	EAE TGSSV--ETGKKANRGTRIAL-VVFVG GTLVLTILF--LVSQGL--LSLQAKQEVCL	55
DB	7	ELGAGSNVGFQKGTQLLGSRTQLLEVLVLAGASLLALLGLCLVALGYQYHRDPSHTCL	66
QY	56	KPECIEAAAAIILSKVNLSDPCDNFFRACDGMISNNPIPEDMPSYGVYVWLRHNVDKL	115
DB	67	TEACIRVAGKILESIDRGVSPCEDFYOFSCGWMIRRNPLPDGRSRWNTFNSLDQNOAIL	126
QY	116	KELLEKSISRERDTEATQKAKILYSSCNVKEAKADAKPLHLHLRHSPPFPVLESIG	175
DB	127	KHLLNT--TFNSSSEAEQKTORFYLSCLOVERIEELGACPLRDLI-----EKIG	174
QY	176	P---EGVMSERKFSLLQTLATFRQYNSVFIIRLYSPDDKASNEHILKLDQATLSLAVR	232
DB	175	GNWITGPMQDNF--MEVLKAVAGTYRATPFTVVISADSKSSNSNVIQVDSGLFLPSR	232
QY	233	EDYLDNSTEAKSYRDALYKFMVDTAVILGANSSRAEHDMSKVLRLKIAEIMIPH-ENR	291
DB	233	DYLL-NRTANEKVLTAYLDYMBELGMLGGSPTRTEQMQQVLELEIQLANITYPQDQR	291
QY	292	TSEAMYNKONI SELSAMITPQFDWLGYIKKVIDTRLYPHLKDISENENVVVRVPQFKDLF	351
DB	292	DEEKIYHKMSISELQALAPSDMWLEFLSLSP-----LELSDSEPVVYVGYMDYLOQVS	345
QY	352	RILGSEKKTITIANVLRVWVYSRIPNLSRRPQYRWLFESRVIQOT--TLTLPQWPKCVNFI	410
DB	346	ELINRTEPFSILNNLYLWNLVQKTTSSLDRRFESAQEKLLLETLYGTKKSCVFRWQTCISNT	405
QY	411	ESALPYVVGKMFVDVYFQEDKKEMMEELVEGVRWAFIDMLEKENENWDAGTKRKAKEKAR	470
DB	406	DDALGFALGSLFVKATFDRQSKETAECWISIRTAFEAL--GQLVWDEKTRQAKKEKAD	464
QY	471	AVLAKVGYPEFINMDTHVNEDLKAIFSEADYFNVLQTRKYLAQSDFFWLRKAVRTEW	530
DB	465	AIYDMIGFPDPFILEPKELDDVDYDGYEISEDSFFQNMNLNLYNFSKVMADQLRKPPSDQW	524
QY	531	FTNPTVYNAFYSTNOIRPPAGELQKPFEGTPEPSLSYGATGVVGHEFTGFRNNG	590
DB	525	SMTPTVNAVYLPYKNEIVFPAGILQAPFY--ARNHPKALNFGGIGVWVGHLEHTAFDDQG	583
QY	591	RKYDKGNLDPWMTSESEKFEKTKCMINQYNNYWKAGLVNKGKRTLGENIADNGGL	650



584 REYDKENLSPWQNESLAAFRNHTACMEEQYNY--QVNGERLNGRQTLGENITDNGGL 641  
651 REAFRAYKWKINDRROGLEEPLLPGITFTNNQLFSLYAHVRCNSYRPEAAREQVQIGAH 710  
642 KAYNAYKAWL--RKHG-BEQQLPAVGLTNHQLFFVGFAQVWCSTPSSHEGLVTDPH 698  
711 SPQFRVNGAISNSEEFQKAFNCPPNSTNRMGMDSCRLW 749  
699 SPARFRVLGTLSNSRDLRHFHGCPCVGPMPNPG-QLCEVW 736

Search completed: December 3, 2003, 07:30:23  
Job time : 500.375 secs



Conservative	4; Mismatches	2; Indels	0; Gaps	0;
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; APPLICANT: Grifflais, R.
; TITLE OF INVENTION: Chlamydia pneumoniae genomic sequence and polypeptides, fragments
; TITLE OF INVENTION: thereof and uses thereof, in particular for the diagnosis, prevention
; TITLE OF INVENTION: and treatment of infection
; FILE REFERENCE: 9710-003-999
; CURRENT APPLICATION NUMBER: US/09/199,452A
; CURRENT FILING DATE: 1998-11-24
; NUMBER OF SEQ ID NOS: 6849
; SEQ ID NO 573
; LENGTH: 132
; TYPE: PRT
; ORGANISM: Chlamydia pneumoniae
US-09-198-452A-573

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Query Match 48.6%; Score 35; DB 4; Length 132;  
Best Local Similarity 53.3%; Pred. No. 35;  
Matches 8; Conservative 3; Mismatches 4; Indels 0; Gaps 0;

QY 2 LTVIAQQTTSQGLLS 16  
: : : : :  
Db 116 MTKAEOEPEKGLLS 130

RESULT 7  
US-09-252-991A-26336  
; Sequence 26336, Application US/09252991A  
; Patent No. 6551795

GENERAL INFORMATION: Ribenfield et al.  
APPLICANT: Marc J.  
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS  
TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS

/ CURRENT APPLICATION NUMBER: US 09/252,991A  
 / CURRENT FILING DATE: 1999-02-18  
 / PRIOR APPLICATION NUMBER: US 60/074,788  
 / PRIOR FILING DATE: 1998-02-18  
 / PRIOR APPLICATION NUMBER: US 60/094,190  
 / PRIOR FILING DATE: 1998-07-27  
 / NUMBER OF SEQ IDS: 33142

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; SEQ ID NO 26336
; LENGTH: 625
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
JS-09-252-991A-26336

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Query Match      48.6%;      Score 35;  DB 4;  Length 625;
Best Local Similarity 50.0%;  Pred. NO. 2.3e+02;
Matches         8;  Conservative 3;  Mismatches 5;  Indels

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2y      1 VLTVIAQQTTSQGLLS 16
      :| | | | | :| :
2b     365 MLTTFAOOTDPAOFYLN 380

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RESULT 8  
JS-09-328-352-4457  
: Sequence 4457, Application US/09328352  
: Patent No. 6562958  
: GENERAL INFORMATION:

APPLICANT: Gary L. Breston et al.  
 TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO ACINETOBACTER  
 TITLE OF INVENTION: BAUMANNII FOR DIAGNOSTICS AND THERAPEUTICS  
 FILE REFERENCE: GTC99-03PA  
 CURRENT APPLICATION NUMBER: US/09/328,352  
 CURRENT FILING DATE: 1999-06-04  
 NUMBER OF SEQ ID NOS: 8252  
 SEQ ID NO 4457  
 LENGTH: 705

TYPE: PRI  
 ORGANISM: Acinetobacter baumannii  
 IS-09-328-352-4457

Query Match 48.6%; Score 35; DB 4; Length 705;

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Best Local Similarity 43.8%; Pred. No. 2.7e+02;
Matches 7; Conservative 4; Mismatches 5; Indels 0; Gaps 0;

QY 1 VLTVIAQQTTSQGLLS 16
      :|::|::|:
Db 435 VLTVIAQGVGSSLLS 450

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RESULT 9
US/09-252-991A-19492
; Sequence 19492, Application US/09252991A
; Patent NO. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO
; ACID SEQUENCES FOR DIAGNOSIS OF AERUGINOSA
; TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSIS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 19492
; LENGTH: 803
; TYPE: PR1
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-19492

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Query Match 48.6%; Score 35; DB 4; Length 803;  
Best Local Similarity 46.2%; Pred. No. 3.1e+02;  
Matches 6; Conservative 5; Mismatches 2; Indels

Qy	3	TVIAQQTSOGLL	15
		::  :: :: :	
Db	352	TLVAQRRSOOGLV	364

```

RESULT 10
US-09-724-623-106
// Sequence 106, Application US/09724623
// Patent No. 6476209
// GENERAL INFORMATION:
// APPLICANT: Glenn, Matthew
// APPLICANT: Lubbers, Mark W
// APPLICANT: Dekker, James
// TITLE OF INVENTION: Polynucleotides, mater
// FILE REFERENCE: 1048U1
// CURRENT APPLICATION NUMBER: US/09/724,623
// CURRENT FILING DATE: 2000-11-28
// NUMBER OF SEQ ID NOS: 124
// SOFTWARE: FastSeq for Windows Version 4.0
// SEQ ID NO 106
// LENGTH: 418
// TYPE: PRT
// ORGANISM: Lactobacillus rhamnosus
US-09-724-623-106

```

Query Match 47.9%; Score 34.5; DB 4; Length 418;  
Best Local Similarity 52.9%; Pred. No. 1.8e+02;  
Matches 9; Conservative 4; Mismatches 1; Indels

QY	3	TVIAQQTTSQ---	GLLS	16
		::   :	:	
pb	20	TVLSQLTTAQKNAGLLA		36

RESULT 11  
US-09-252-991A-28921  
; Sequence 28921, Application US/09252991A  
; Patent No. 6551795

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; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 28921
; LENGTH: 1034
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-28921

Query Match 47.2%; Score 34; DB 4; Length 1034;
Best Local Similarity 54.5%; Pred. No. 6.5e+02;
Matches 6; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

QY 5 IAQQTSSQGLL 15
DB 816 LADQSTDOGLI 826

RESULT 12
US-09-328-352-6604
; Sequence 6604, Application US/09128352
; Patent No. 6562958
; GENERAL INFORMATION:
; APPLICANT: Gary L. Breton et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO ACINETOBACTER
; TITLE OF INVENTION: BAUMANNII FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: GTC99-03PA
; CURRENT APPLICATION NUMBER: US/09/328,352
; CURRENT FILING DATE: 1999-06-04
; NUMBER OF SEQ ID NOS: 8252
; SEQ ID NO 6604
; LENGTH: 1627
; TYPE: PRT
; ORGANISM: Acinetobacter baumannii
US-09-328-352-6604

Query Match 47.2%; Score 34; DB 4; Length 1627;
Best Local Similarity 50.0%; Pred. No. 1.1e+03;
Matches 8; Conservative 3; Mismatches 5; Indels 0; Gaps 0;

QY 1 VLTVIAQQTSSQGLLS 16
DB 537 LLAHLALQTTQGLVS 552

RESULT 13
US-09-252-991A-18710
; Sequence 18710, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 18710
; LENGTH: 438
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-18710

Query Match 45.8%; Score 33; DB 4; Length 438;
Best Local Similarity 46.7%; Pred. No. 3.5e+02;
Matches 7; Conservative 3; Mismatches 5; Indels 0; Gaps 0;

QY 2 LTVIAQQTSSQGLLS 16
DB 112 VTAVAPFTQOGMLLS 126

RESULT 14
US-09-252-991A-17641
; Sequence 17641, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 17641
; LENGTH: 453
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-17641

Query Match 45.8%; Score 33; DB 4; Length 453;
Best Local Similarity 46.2%; Pred. No. 3.7e+02;
Matches 6; Conservative 3; Mismatches 4; Indels 0; Gaps 0;

QY 1 VLTVIAQQTSSQ 13
DB 117 VAVVWAEQVAAQG 129

RESULT 15
US-08-870-518-4
; Sequence 4, Application US/08870518
; Patent No. 5925566
; GENERAL INFORMATION:
; APPLICANT: Davis, Roger J.
; APPLICANT: Galcheva-Gargova, Zoya
; TITLE OF INVENTION: NON-ACTIVATED RECEPTOR COMPLEX
; TITLE OF INVENTION: PROTEINS AND USES THEREOF
; NUMBER OF SEQUENCES: 35
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fish & Richardson P.C.
; STREET: 225 Franklin Street
; CITY: Boston
; STATE: MA
; COUNTRY: US
; ZIP: 02110-2804
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: Windows95
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/870,518
; FILING DATE: 06-JUN-1997
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 60/019,219
; FILING DATE: 06-JUN-1996
; ATTORNEY/AGENT INFORMATION:
; NAME: Fasse, Peter J.

```

REGISTRATION NUMBER: 32,983  
REFERENCE/DOCKET NUMBER: 04020/102001  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 617/542-5070  
TELEFAX: 617/542-8906  
TELEX: 200154  
INFORMATION FOR SEQ ID NO: 4:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 459 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
JS-08-870-518-4

Query Match 45.8%; Score 33; DB 2; Length 459;  
Best Local Similarity 58.3%; Pred. No. 3.7e+02;  
Matches 7; Conservative 2; Mismatches 3; Indels 0; Gaps 0;

2y 5 IAQOTTSGLLS 16  
: | | | | |  
Db 125 LGQLTVEGLLS 136

Search completed: December 3, 2003, 07:31:50  
Job time : 1.62745 secs





; Sequence 27413, Application US/10029386  
; Publication No. US20030194704A1  
; GENERAL INFORMATION:  
; APPLICANT: Penn, Sharon G.  
; APPLICANT: Rank, David R.  
; APPLICANT: Hanzel, David K.  
; TITLE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL FOR C  
; TITLE OF INVENTION: EXPRESSION ANALYSIS TWO  
; FILE REFERENCE: AEMICA-X-2  
; CURRENT APPLICATION NUMBER: US/10/029,386  
; CURRENT FILING DATE: 2001-12-20  
; NUMBER OF SEQ ID NOS: 34288  
; SOFTWARE: Anomax Sequence Listing Engine vers. 1.1  
; SEQ ID NO 27413  
; LENGTH: 77  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
; FEATURE:  
; OTHER INFORMATION: MAP TO CHR22 105.0  
; OTHER INFORMATION: EXPRESSED IN HELA, SIGNAL = 1.1  
; OTHER INFORMATION: EXPRESSED IN PLACENTA, SIGNAL = 1.9  
; OTHER INFORMATION: EXPRESSED IN FETAL LIVER, SIGNAL = 2  
; OTHER INFORMATION: EXPRESSED IN LUNG, SIGNAL = 1.8  
; OTHER INFORMATION: EXPRESSED IN ADULT LIVER, SIGNAL = 1.9  
; OTHER INFORMATION: EXPRESSED IN BONE MARROW, SIGNAL = 2.1  
; OTHER INFORMATION: EXPRESSED IN BRAIN, SIGNAL = 2  
; OTHER INFORMATION: EXPRESSED IN HEART, SIGNAL = 2  
; OTHER INFORMATION: SWISSPROT HIT: Q9VHB6, EVALUE 9.00e+00  
US-10-029-386-27413

Query Match 48.6%; Score 35; DB 12; Length 77;  
Best Local Similarity 40.0%; Pred. No. 60;  
Matches 6; Conservative 5; Mismatches 4; Indels 0; Gaps 0;

Qy 1 VLTVIAQQTTSQGLL 15  
Db 59 LLLVDDQATKRGIL 73

RESULT 3  
US-09-881-752A-340  
; Sequence 340, Application US/09881752A  
; Patent No. US20020115078A1  
; GENERAL INFORMATION:  
; APPLICANT: Kleanthous, Harold  
; APPLICANT: Al-Garawi, Amal  
; APPLICANT: Miller, Charles  
; APPLICANT: Tomb, Jean-Francois  
; APPLICANT: Oomen, Raymond P.  
; TITLE OF INVENTION: Identification of Polynucleotides  
; TITLE OF INVENTION: Encoding No. US20020115078A1Hel Helicobacter Polypeptides in the  
; FILE REFERENCE: 06132/041002  
; CURRENT APPLICATION NUMBER: US/09/881,752A  
; CURRENT FILING DATE: 2001-06-15  
; PRIOR APPLICATION NUMBER: US 08/833,457  
; PRIOR FILING DATE: 1997-04-01  
; NUMBER OF SEQ ID NOS: 370  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 340  
; LENGTH: 236  
; TYPE: PRT  
; ORGANISM: Helicobacter pylori  
US-09-881-752A-340

Query Match 48.6%; Score 35; DB 10; Length 236;  
Best Local Similarity 50.0%; Pred. No. 2.2e+02;  
Matches 8; Conservative 2; Mismatches 6; Indels 0; Gaps 0;

Qy 1 VLTVIAQQTTSQGLS 16  
Db 173 ILTPVIAQNVAGGLS 188

RESULT 4  
US-09-815-242-4880  
; Sequence 4880, Application US/09815242  
; Patent No. US20020061569A1  
; GENERAL INFORMATION:  
; APPLICANT: Haselbeck, Robert  
; APPLICANT: Ohlsen, Karl L.  
; APPLICANT: Zyskind, Judith W.  
; APPLICANT: Wall, Daniel  
; APPLICANT: Trawick, John D.  
; APPLICANT: Carr, Grant J.  
; APPLICANT: Yamamoto, Robert T.  
; APPLICANT: Xu, H. Howard  
; TITLE OF INVENTION: Identification of Essential Genes in  
; TITLE OF INVENTION: Prokaryotes  
; FILE REFERENCE: ELITRA.011A  
; CURRENT APPLICATION NUMBER: US/09/815,242  
; CURRENT FILING DATE: 2001-03-21  
; PRIOR APPLICATION NUMBER: 60/191,078  
; PRIOR FILING DATE: 2000-03-21  
; PRIOR APPLICATION NUMBER: 60/206,848  
; PRIOR FILING DATE: 2000-05-23  
; PRIOR APPLICATION NUMBER: 60/207,727  
; PRIOR FILING DATE: 2000-05-26  
; PRIOR APPLICATION NUMBER: 60/242,578  
; PRIOR FILING DATE: 2000-10-23  
; PRIOR APPLICATION NUMBER: 60/253,625  
; PRIOR FILING DATE: 2000-11-27  
; PRIOR APPLICATION NUMBER: 60/257,931  
; PRIOR FILING DATE: 2000-12-22  
; PRIOR APPLICATION NUMBER: 60/269,308  
; PRIOR FILING DATE: 2001-02-16  
; NUMBER OF SEQ ID NOS: 14110  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 4880  
; LENGTH: 254  
; TYPE: PRT  
; ORGANISM: Enterococcus faecalis  
US-09-815-242-4880

Query Match 48.6%; Score 35; DB 9; Length 254;  
Best Local Similarity 43.8%; Pred. No. 2.4e+02;  
Matches 7; Conservative 5; Mismatches 4; Indels 0; Gaps 0;

Qy 1 VLTVIAQQTTSQGLS 16  
Db 80 VLNSLSLPTSQGILA 95

RESULT 5  
US-09-815-242-10486  
; Sequence 10486, Application US/09815242  
; Patent No. US20020061569A1  
; GENERAL INFORMATION:  
; APPLICANT: Haselbeck, Robert  
; APPLICANT: Ohlsen, Karl L.  
; APPLICANT: Zyskind, Judith W.  
; APPLICANT: Wall, Daniel  
; APPLICANT: Trawick, John D.  
; APPLICANT: Carr, Grant J.  
; APPLICANT: Yamamoto, Robert T.  
; APPLICANT: Xu, H. Howard  
; TITLE OF INVENTION: Identification of Essential Genes in  
; TITLE OF INVENTION: Prokaryotes  
; FILE REFERENCE: ELITRA.011A  
; CURRENT APPLICATION NUMBER: US/09/815,242  
; CURRENT FILING DATE: 2001-03-21  
; PRIOR APPLICATION NUMBER: 60/191,078  
; PRIOR FILING DATE: 2000-03-21  
; PRIOR APPLICATION NUMBER: 60/206,848  
; PRIOR FILING DATE: 2000-05-23  
; PRIOR APPLICATION NUMBER: 60/207,727

; PRIOR FILING DATE: 2000-05-26  
 ; PRIOR APPLICATION NUMBER: 60/242,578  
 ; PRIOR FILING DATE: 2000-10-23  
 ; PRIOR APPLICATION NUMBER: 60/253,625  
 ; PRIOR FILING DATE: 2000-11-27  
 ; PRIOR APPLICATION NUMBER: 60/257,931  
 ; PRIOR FILING DATE: 2000-12-22  
 ; PRIOR APPLICATION NUMBER: 60/269,308  
 ; PRIOR FILING DATE: 2001-02-16  
 ; NUMBER OF SEQ ID NOS: 14110  
 ; SOFTWARE: FastSeq for Windows Version 4.0  
 ; SEQ ID NO 10486  
 ; LENGTH: 258  
 ; TYPE: PRT  
 ; ORGANISM: Enterococcus faecalis  
 US-09-815-242-10486

Query Match 48.6%; Score 35; DB 9; Length 258;  
 Best Local Similarity 43.8%; Pred. No. 2.4e+02;  
 Matches 7; Conservative 5; Mismatches 4; Indels 0; Gaps 0;

QY 1 VLTVIAQQTTSQGLLS 16  
 || : : : ||| : :  
 Db 80 VLNSLSLEPTSQGILA 95

RESULT 6  
 US-10-047-539-2  
 ; Sequence 2, Application US/10047539  
 ; Publication No. US20020177547A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: MOLLING, KARIN  
 ; APPLICANT: PAVLOVIC, JOVAN  
 ; APPLICANT: NAWRATH, MICHAEL  
 ; TITLE OF INVENTION: PHARMACEUTICAL COMPOSITIONS FOR TREATING OR PREVENTING  
 ; FILE REFERENCE: VOS-27  
 ; CURRENT APPLICATION NUMBER: US/10/047,539  
 ; CURRENT FILING DATE: 2002-01-15  
 ; PRIOR APPLICATION NUMBER: EP 01 10 0914.9  
 ; PRIOR FILING DATE: 2001-01-16  
 ; NUMBER OF SEQ ID NOS: 13  
 ; SOFTWARE: PatentIn Ver. 2.1  
 ; SEQ ID NO 2  
 ; LENGTH: 626  
 ; TYPE: PRT  
 ; ORGANISM: Mus musculus  
 US-10-047-539-2

Query Match 48.6%; Score 35; DB 14; Length 626;  
 Best Local Similarity 54.5%; Pred. No. 6.8e+02;  
 Matches 6; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

2Y 3 TVIAQQTTSQ 13  
 : : : ||| : :  
 Db 395 TVAQATTTEG 405

RESULT 7  
 US-10-288-930-106  
 ; Sequence 106, Application US/10288930  
 ; Publication No. US20030138822A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Glenn, Matthew  
 ; APPLICANT: Lubbers, Mark W  
 ; APPLICANT: Dekker, James  
 ; TITLE OF INVENTION: Polynucleotides and polypeptides, materials incorporating  
 ; FILE REFERENCE: 11000.1048u1c1  
 ; CURRENT APPLICATION NUMBER: US/10/288,930  
 ; CURRENT FILING DATE: 2002-11-05  
 ; PRIOR APPLICATION NUMBER: 09/724,623  
 ; PRIOR FILING DATE: 2000-11-28

; PRIOR APPLICATION NUMBER: 60/148,801  
 ; PRIOR FILING DATE: 1999-12-02  
 ; NUMBER OF SEQ ID NOS: 124  
 ; SOFTWARE: FastSeq for Windows Version 4.0  
 ; SEQ ID NO 106  
 ; LENGTH: 418  
 ; TYPE: PRT  
 ; ORGANISM: Lactobacillus rhamnosus  
 US-10-288-930-106

Query Match 47.9%; Score 34.5; DB 12; Length 418;  
 Best Local Similarity 52.9%; Pred. No. 5.3e+02;  
 Matches 9; Conservative 4; Mismatches 1; Indels 3; Gaps 1;

QY 3 TVIAQQTTSQ---GLLS 16  
 || : : : ||| : :  
 Db 20 TVLSQUTTAQKNAGLLA 36

RESULT 8  
 US-10-310-002-3  
 ; Sequence 3, Application US/10310002  
 ; Publication No. US20030125296A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Emory University  
 ; TITLE OF INVENTION: Insulin-Responsive Sequence DNA Binding Protein-1 and Methods to  
 ; FILE REFERENCE: E056 1010  
 ; CURRENT APPLICATION NUMBER: US/10/310,002  
 ; CURRENT FILING DATE: 2002-12-04  
 ; NUMBER OF SEQ ID NOS: 63  
 ; SOFTWARE: PatentIn version 3.2  
 ; SEQ ID NO 3  
 ; LENGTH: 121  
 ; TYPE: PRT  
 ; ORGANISM: Rattus norvegicus  
 US-10-310-002-3

Query Match 47.2%; Score 34; DB 15; Length 121;  
 Best Local Similarity 57.1%; Pred. No. 1.5e+02;  
 Matches 8; Conservative 2; Mismatches 4; Indels 0; Gaps 0;

QY 2 LTVIAQQTTSQGLL 15  
 : : : ||| : :  
 Db 92 LSVTAVCSTEQGQL 105

RESULT 9  
 US-09-738-626-5842  
 ; Sequence 5842, Application US/09738626  
 ; Publication No. US20020197605A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: NAKAGAWA, SATOSHI  
 ; APPLICANT: MIZOGUCHI, HIROSHI  
 ; APPLICANT: ANDO, SEIKO  
 ; APPLICANT: HAYASHI, MIKIRO  
 ; APPLICANT: OCHIAI, KEIKO  
 ; APPLICANT: YOKOI, HARUHIKO  
 ; APPLICANT: TATEISHI, NAOKO  
 ; APPLICANT: SENOH, AKIHIRO  
 ; APPLICANT: IKEDA, MASATO  
 ; APPLICANT: OZAKI, AKIO  
 ; TITLE OF INVENTION: NOVEL POLYNUCLEOTIDES  
 ; FILE REFERENCE: 249-125  
 ; CURRENT APPLICATION NUMBER: US/09/738,626  
 ; CURRENT FILING DATE: 2000-12-18  
 ; PRIOR APPLICATION NUMBER: JP 99/377484  
 ; PRIOR FILING DATE: 1999-12-16  
 ; PRIOR APPLICATION NUMBER: JP 00/159162  
 ; PRIOR FILING DATE: 2000-04-07  
 ; PRIOR APPLICATION NUMBER: JP 00/280588  
 ; PRIOR FILING DATE: 2000-08-03  
 ; NUMBER OF SEQ ID NOS: 7059

; SOFTWARE: PatentIn ver. 3.0  
; SEQ ID NO 5842  
; LENGTH: 334  
; TYPE: PRT  
; ORGANISM: Corynebacterium glutamicum  
US-09-738-626-5842

Query Match 47.2%; Score 34; DB 10; Length 334;  
Best Local Similarity 57.1%; Pred. No. 5e+02; 5; Indels 0; Gaps 0;  
Matches 8; Conservative 1; Mismatches 5; Indels 0; Gaps 0;

QY 2 LTVIAQQTTSQGLL 15  
| | | | |  
DB 277 LTVLNSNTSVGTL 290

RESULT 10  
US-10-156-761-12564  
; Sequence 12564, Application US/10156761  
; Publication No. US20030119018A1  
; GENERAL INFORMATION:  
; APPLICANT: OMURA, SATOSHI  
; APPLICANT: IKEDA, HARUO  
; APPLICANT: ISHIKAWA, JUN  
; APPLICANT: HORIKAWA, HIROSHI  
; APPLICANT: SHIBA, TADAYOSHI  
; APPLICANT: SAKAKI, YOSHIYUKI  
; APPLICANT: HATTORI, MASAHIRA  
; TITLE OF INVENTION: NOVEL POLYNUCLEOTIDES  
; FILE REFERENCE: 249-262  
; CURRENT APPLICATION NUMBER: US/10/156,761  
; PRIOR FILING DATE: 2002-05-29  
; PRIOR APPLICATION NUMBER: JP 2001-204089  
; PRIOR FILING DATE: 2001-05-30  
; PRIOR APPLICATION NUMBER: JP 2001-272697  
; PRIOR FILING DATE: 2001-08-02  
; NUMBER OF SEQ ID NOS: 15109  
; SEQ ID NO 12564  
; LENGTH: 508  
; TYPE: PRT  
; ORGANISM: Streptomyces avermitilis  
US-10-156-761-12564

Query Match 47.2%; Score 34; DB 15; Length 508;  
Best Local Similarity 50.0%; Pred. No. 8.1e+02; 5; Indels 0; Gaps 0;  
Matches 7; Conservative 2; Mismatches 5; Indels 0; Gaps 0;

QY 2 LTVIAQQTTSQGLL 15  
| | | | |  
DB 281 LASLVEQTTSQGL 294

RESULT 11  
US-10-310-002-11  
; Sequence 11, Application US/10310002  
; Publication No. US20030125296A1  
; GENERAL INFORMATION:  
; APPLICANT: Emory University  
; TITLE OF INVENTION: Insulin-Responsive Sequence DNA Binding Protein-1 and Methods to  
; FILE REFERENCE: E056 1010  
; CURRENT APPLICATION NUMBER: US/10/310,002  
; CURRENT FILING DATE: 2002-12-04  
; NUMBER OF SEQ ID NOS: 63  
; SOFTWARE: PatentIn version 3.2  
; SEQ ID NO 11  
; LENGTH: 1008  
; TYPE: PRT  
; ORGANISM: Rattus norvegicus  
US-10-310-002-11

Query Match 47.2%; Score 34; DB 15; Length 1008;  
Best Local Similarity 57.1%; Pred. No. 1.8e+03;

Matches 8; Conservative 2; Mismatches 4; Indels 0; Gaps 0;  
QY 2 LTVIAQQTTSQGLL 15  
| | | | |  
DB 777 LSVTAVQSTEQGL 790

RESULT 12  
US-10-310-002-47  
; Sequence 47, Application US/10310002  
; Publication No. US20030125296A1  
; GENERAL INFORMATION:  
; APPLICANT: Emory University  
; TITLE OF INVENTION: Insulin-Responsive Sequence DNA Binding Protein-1 and Methods to  
; FILE REFERENCE: E056 1010  
; CURRENT APPLICATION NUMBER: US/10/310,002  
; CURRENT FILING DATE: 2002-12-04  
; NUMBER OF SEQ ID NOS: 63  
; SOFTWARE: PatentIn version 3.2  
; SEQ ID NO 47  
; LENGTH: 1054  
; TYPE: PRT  
; ORGANISM: Rattus norvegicus  
US-10-310-002-47

Query Match 47.2%; Score 34; DB 15; Length 1054;  
Best Local Similarity 57.1%; Pred. No. 1.9e+03;  
Matches 8; Conservative 2; Mismatches 4; Indels 0; Gaps 0;

QY 2 LTVIAQQTTSQGLL 15  
| | | | |  
DB 816 LSVTAVQSTEQGL 829

RESULT 13  
US-10-156-761-10563  
; Sequence 10563, Application US/10156761  
; Publication No. US20030119018A1  
; GENERAL INFORMATION:  
; APPLICANT: OMURA, SATOSHI  
; APPLICANT: IKEDA, HARUO  
; APPLICANT: ISHIKAWA, JUN  
; APPLICANT: HORIKAWA, HIROSHI  
; APPLICANT: SHIBA, TADAYOSHI  
; APPLICANT: SAKAKI, YOSHIYUKI  
; APPLICANT: HATTORI, MASAHIRA  
; TITLE OF INVENTION: NOVEL POLYNUCLEOTIDES  
; FILE REFERENCE: 249-262  
; CURRENT APPLICATION NUMBER: US/10/156,761  
; CURRENT FILING DATE: 2002-05-29  
; PRIOR APPLICATION NUMBER: JP 2001-204089  
; PRIOR FILING DATE: 2001-05-30  
; PRIOR APPLICATION NUMBER: JP 2001-272697  
; PRIOR FILING DATE: 2001-08-02  
; NUMBER OF SEQ ID NOS: 15109  
; SEQ ID NO 10563  
; LENGTH: 793  
; TYPE: PRT  
; ORGANISM: Streptomyces avermitilis  
US-10-156-761-10563

Query Match 46.5%; Score 33.5; DB 15; Length 793;  
Best Local Similarity 47.1%; Pred. No. 1.7e+03;  
Matches 8; Conservative 5; Mismatches 3; Indels 1; Gaps 1;

QY 1 VLTIV-IAQQTTSQGLL 16  
| | | | |  
DB 98 LLTISIAEEAASQGVTS 104

RESULT 14  
US-09-925-300-1641

```
; Sequence 1641, Application US/09925300
; Patent No. US20020151681A1
; GENERAL INFORMATION:
; APPLICANT: Craig Rosen,
; APPLICANT: Steve Ruben,
; TITLE OF INVENTION: Nucleic Acids, Proteins and Antibodies
; FILE REFERENCE: PA101
; CURRENT APPLICATION NUMBER: US/09/925,300
; CURRENT FILING DATE: 2001-08-10
; PRIOR APPLICATION NUMBER: PCT/US00/05988
; PRIOR FILING DATE: 2000-03-08
; PRIOR APPLICATION NUMBER: 60/124,270
; PRIOR FILING DATE: 1999-03-12
; NUMBER OF SEQ ID NOS: 1890
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1641
; LENGTH: 81
; TYPE: PRT
; ORGANISM: Homo sapiens
JS-09-925-300-1641
```

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Query Match 45.8%; Score 33; DB 10; Length 81;
Best Local Similarity 43.8%; Pred. No. 1.5e+02;
Matches 7; Conservative 4; Mismatches 5; Indels 0; Gaps 0;
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```
2y 1 VLTVIAQQTTSQGLLS 16
   | : | : | : | : |
>b 63 VMLVLQQSKSGFRS 78
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## RESULT 15

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JS-10-156-761-12525
Sequence 12525, Application US/10156761
; Publication No. US20030119019A1
; GENERAL INFORMATION:
; APPLICANT: OMURA, SATOSHI
; APPLICANT: IKEDA, HARUO
; APPLICANT: ISHIKAWA, JUN
; APPLICANT: HORIKAWA, HIROSHI
; APPLICANT: SHIBA, TADAYOSHI
; APPLICANT: SAKAKI, YOSHIYUKI
; APPLICANT: HATTORI, MASAHIRA
; TITLE OF INVENTION: NOVEL POLYNUCLEOTIDES
; FILE REFERENCE: 249-262
; CURRENT APPLICATION NUMBER: US/10/156,761
; CURRENT FILING DATE: 2002-05-29
; PRIOR APPLICATION NUMBER: JP 2001-204089
; PRIOR FILING DATE: 2001-05-30
; PRIOR APPLICATION NUMBER: JP 2001-272697
; PRIOR FILING DATE: 2001-08-02
; NUMBER OF SEQ ID NOS: 15109
; SEQ ID NO 12525
; LENGTH: 102
; TYPE: PRT
; ORGANISM: Streptomyces avermitilis
JS-10-156-761-12525
```

```
Query Match 45.8%; Score 33; DB 15; Length 102;
Best Local Similarity 60.0%; Pred. No. 1.9e+02;
Matches 6; Conservative 3; Mismatches 1; Indels 0; Gaps 0;
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2y 6 AQQTTSQGLL 15
   | : | : | : |
>b 24 AEQTASGLV 33
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Search completed: December 3, 2003, 07:30:23
Job time : 10.6248 secs
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